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ASSELIN, FRANCIS X.			
Elected senior vice-president of Stone & Webster Service Corp., New York, N. Y.	D	107	
ASSEMBLY, ON-SITE			
Closure and shell joints for large high-pressure cylinders (A)	N	73	
Site-assembled steel pressure vessels (A)	Ja	71	
ASTILL, KENNETH N.			
Awarded faculty fellowship by National Science Foundation	Mr	109	
ASTLEY, WAYNE C.			
Becomes vice-president of ASME power department policy board	N	101	
ATKINS, A. G.			
Influence of redundant work when drawing rods through conical dies, the (A)	Ap	130	
ATKINSON, C. P.			
Symmetric arc solutions of $\bar{\zeta} = \zeta^*$ (A)	S	78	
ATMOSPHERE			
Effects of lubricants, metals, temperature, and atmospheric environments on gear load-carrying capacity (A)	Ja	74	
ATOMIC ENERGY			
"A" men	N	58	
Design and performance features of molten-salt breeder reactors (A)	Ja	70	
ATOMIC ENERGY AGENCIES			
AEC fellowships available	Jl	87	
AEC on nuclear power	O	85	
Honored for safety	S	98	
IAEA symposium on operating and developmental experience in the treatment of airborne radioactive wastes	O	83	
NAS to aid AEC	S	98	
ATOMS			
Ironing out the holes	D	53	
AUNG, WIN			
Heat transfer by free convection from a horizontal wire to carbon dioxide in the critical region (A)	Ja	66	
AUSLANDER, D. M.			
Distributed system simulation with bilateral delay-line models (A)	Mr	80	
AUTENRIETH, GEORGE C.			
Obituary	My	119	
Receives ASME 60-year certificate	Ap	157	
AUTOMATIC CONTROL. <i>See also</i> TRAINS			
Algorithm for computing frequency response bounds for systems with variable parameters, an (A)	Mr	80	
Analysis of the dynamics of an adaptive direct digital control system (A)	F	74	
Automated patient monitoring system	N	56	
Automated ship	Ap	123	
Automated (unmanned) Mars sample return missions (A)	Mr	68	
Automatic highway, the	Jl	18;	
(C)	S	87; D	
Automatic level control for liquid nitrogen traps	Ag	44	
Computer dialogue	Ap	117	
Control of oscillatory nonlinear systems, the (A)	F	74	
Controllability in predictive control systems (A)	Mr	80	
Design of servovalves for constant-gain liquid-feed systems in variable-thrust rocket motors, the (A)	Mr	80	
Discontinuous compensation of quantized systems (A)	Mr	80	
Distributed system simulation with bilateral delay-line models (A)	Mr	80	
Evaluation of an automated mass transit system (Westinghouse Transis Expressway, Skybus), an (A)	F	71	
Foresighted needed (C)	N	81	
Joint IFIP-IFAC programming language conference: PROLAMAT 15 to be held in Rome, Italy, September 15-17, 1969	...D		
Minimum inertia gear train design (A)	Mr	83	
Mode-oriented design viewpoint for linear, lumped-parameter multivariable control systems (A)	F	74	
New concepts in the optimal control of thermal power plants (A)	F	73	
New Liapunov function for nonlinear time-varying systems (A)	F	74	
Optimum linear preview control with application to vehicle suspension (A)	F	74	
Remote "torquing" of bolt	N	57	
Remote-controlled mine detection	D	54	
Robot mower	N	60	
Triple input describing function and applications to the stability of nonlinear systems (A)	F	73	
Upside-down robot	O	51	
AUTOMATION			
FACT replaces 21,000 men, a	My	63	
Use of integrated circuitry logic for ore-handling automation (A)	D	62	
AUTOMOBILES			
Automobile and air pollution, the	Mr	34	
Gasoline economy study	F	92	
Low temperature evaluation of rear axle seals (A)	Ap	124	
Safe at any speed	Mr	67	
Safer windshield	F	94	
Safety car contracts awarded	Je	90	
Taking exception (C)	Je	82	
Vehicular preview	Ag	42	
AUTOMOBILES, ELECTRIC. <i>See also</i> VEHICLES, ELECTRIC			
Electric town car	Ja	85	
3-passenger electric	Ap	115	
Wanted: better electric cars	Ja	85	
AUTOMOTIVE ENGINEERING. <i>See also</i> AUTOMOBILES, ELECTRIC; HUMAN FACTORS ENGINEERING; TRANSPORTATION			
Car crash conference	F	56	
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Life-saving "trombone"	Mr	58	
One-wheel "car"	Ja	57	
Road-tire interaction	My	49	
Safer than ever: new and broader safety motor vehicle standards proposed	Ja	79	
AUTOMOTIVE INDUSTRY			
Automobile and air pollution, the	Mr	34	
Taking exception (C)	Je	82	
AVIATION			
Civil aviation: its growth and problems; NAE lists urgently needed research—on airports, noise, and traffic control	N	87	
Criteria for fastener system design (A)	Mr	70	
On the calculation of unsteady nonlinear three-dimensional supersonic flow past wings (A)	Ag	52	
Parametric relationship between fatigue life, cyclic stress, and crack length in flat panels and cylinders, a (A)	Mr	70	
Propulsion system controls: capabilities and future requirements (A)	My	70	
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Titanium alloys—delayed failure and alloy modification (A)	Mr	68	
AVIATION RESEARCH			
Pneumotachometers in adverse environments	O	52	
AVITZUR, BETZALEL			
Analysis of rod shaving and orthogonal cutting (A)	Ap	130	
Promoted to full professor, Lehigh University, Bethlehem, Pa.	Jl	112	
AVRAM, MOIS H.			
Receives ASME 65-year certificate	Ap	157	
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BABER, B. B.			
Effects of lubricants, metals, temperature, and atmospheric environments on gear load-carrying capacity (A)	Ja	74	
BACHER, J. F.			
Corrosion protection process for edges of porcelain enameled products (A)	Je	71	
BACK, LLOYD H.			
Effects of surface cooling and heating on structure of low-speed, laminar boundary-layer gas flows with constant free-stream velocity (A)	O	69	
Heat transfer and laminar boundary-layer distributions in an internal subsonic gas stream at temperatures up to 13,900 deg R (A)	O	68	
BAUDER, WARREN			
Automatic highway (C)	S	87	
BAUGLEY, R. H.			
Turborotor instability—effect of initial transients on plane motion (A)	D	65	
BAER, ROBERT L.			
Prediction of transient performance of pressurized water reactors, the (A)	Ja	70	
BAILEY, ERVIN G.			
Receives ASME 65-year certificate	Ap	157	
BAILEY, EUGENE G.			
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BAILEY, FRED C.			
Elected president of Society for Experimental Stress Analysis	F	111	
BAILEY, W. D.			
Operating experience with a multijet gas turbine-generator (A)	Je	77	
BAIN, J. A.			
Effect of design changes in railway catenary-pantograph systems on power collection at high speed (A)	My	71	
Railway overhead contact systems, catenary-pantograph dynamics for power collection at high speed (A)	My	71	
BAKER, L. JR.			
Heat transfer from spheres into subcooled liquid sodium during forced convection (A)	Mr	74	
BAKER, T. E.			
Modeling distributed-parameter flow systems for control (A)	F	73	
BAKKE, ROGER M.			
Analysis of the dynamics of an adaptive direct digital control system (A)	F	74	
BALANCING			
Dynamics of synchronous-precessing turborotors with particular reference to balancing: part 2—application (A)	Ap	133	
New method for completely force balancing simple linkages, a (A)	N	67	
BALANIS, LEO S.			
Joins Dictaphone Corp., New York, N. Y., as program manager in engineering department	N	107	
BALDWIN, LIONEL V.			
Appointed to National Science Foundation's advisory committee for science foundation	Ap	157	
BALINT, IMRE			
Two-stage turbocharging and intercooling (A)	Jl	65	
BALJE, O. E.			
Axial cascade technology and application to flow path designs:			
Part I—axial cascade technology (A)	My	68	
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Axial turbine performance evaluation			
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BALL, LAWRENCE R.			
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Ballistic air cleaner concept for Army vehicular gas turbines, the (A)	Je	78	

BALTZER, R. A.	Column separation accompanying liquid transients in pipes (A)	Ap	128	BASINSKI, L. R.	Performance testing of 580-mw Joliet units No. 7 and 8 (A)	Ja	65	Dynamic capacity of oscillating rolling element bearings (A)	Ja	73
BALUKJIAN, A. A.	Fundamental frequency of incomplete circular cantilever rods (A)	F	72	BASS, R. L.	Some correlations of theory and experiment for developing turbulent free shear layers (A)	Jl	71	Effect of misalignment of the fatigue life of cylindrical roller bearings having crowned rolling members, the (A)	D	67
BAMBERGER, E. N.	Evaluation of lubricants for high-temperature ball bearing applications (A)	Ja	72	BASSETT, WALTER G. R.	Obituary	My	119	Electron fractographic study of spalls formed in rolling contact, an (A)	Mr	76
BANKING	Banking and computers	S	90	BATORI, GEORGE J.	Other patents (C)	Mr	83	Evaluation of lubricants for high-temperature ball bearing applications (A)	Ja	72
BANNERMAN, ROBERT A.	Obituary	Je	119	BATORI, STEPHEN M.	Obituary	Jl	115	Experiment and analysis of a flat disk squeeze-film bearing including effects of supported mass motion (A)	S	73
BARBİN, A. R.	Bubble trajectories and equilibrium levels in vibrated liquid columns (A)	Ag	55	BATTERIES	Application considerations for the new zinc battery (A)	Je	71	Experimental stability studies of the herringbone-grooved gas-lubricated journal bearing (A)	S	75
BARGER, LORIN W.	Receives ASME 55-year certificate	Ap	157		Organic and molten salt electrolytes (A)	Je	68	Experimental study of elastohydrodynamic lubrication of foil bearings, an: part 1—displacement in the central zone (A)	Ja	72
BARK, MELVIN E.	Receives ASME 55-year certificate	Ap	157	BATTERMAN, S. C.	Free-edge plastic buckling of axially compressed cylindrical shells (A)	Ap	132	Externally pressurized bearings II. Vibration attenuators (A)	Ap	124
BARKER, JOSEPH E.	Obituary	My	119	BAUER, A. B.	Vortex valve operation in a vacuum environment (A)	Ag	54	Flanges-mounted ball-bearing fatigue tests (A)	Mr	76
BARLOW, E. J.	Axisymmetric, perfectly flexible foil bearing with porous inlet restrictor, the (A)	Ja	73	BAUER, H. F.	Interaction of a sloshing liquid with elastic containers (A)	Ag	52	Foil bearings (A)	O	73
	Calculation of fluid motion in axial flow turbomachines (A)	Je	77		Nonlinear response of elastic plates to pulse excitations (A)	S	80	Forced cooling of a slider bearing with wedge film (A)	Ja	73
	Role of high temperature gas turbines in power generation, the (A)	My	71	BAULKHAM, ERNIE G.	Obituary	Ap	161	Future research in rolling contact fatigue (A)	Mr	76
BARNHART, R. E.	Contribution of metallic and ceramic coatings to gas turbine engines, the (A)	Je	78	BAUM, J. V.	Separable tube connector and specialized seal generated by computer-aided design technique, a (A)	Jl	74	Gas-bearing turbomachinery (A)	Ag	50
BARNUM, JAMES R.	Promoted to chief engineer of systems at Denison Division of Abex Corp., Columbus, Ohio	F	111	BAUMGARTNER, CHARLES G.	Obituary	Ap	161	Higher order approximations in the asymptotic solution of the Reynolds equation for slider bearings at high bearing numbers (A)	S	75
BARRANGON, MAURICE	Inside ASME	Ja 128; F 114; Mr 114; Ap 162; My 120; Ag 104; O 114; N 122; D 120		BAUTER, MERIWETHER L., JR.	Receives ASME 55-year certificate	Ap	157	Identification of potential failure nuclei in rolling contact fatigue (A)	Mr	76
BARRETT, J. A.	Man with a purpose (Ed)	Je		BAXTER, R. L.	Elected ASME fellow	Ag	100	Investigation of externally pressurized steam-lubricated journal bearing (A)	Ag	50
BARRETT, JACK R.	Development of a three-mode control using high-gain fluid amplifiers (A)	My	76	BAXTER, W. A.	Vibration—an indicating tool	Mr	36	Investigation of methods to improve the wear resistance of gas-bearing ceramic materials, an (A)	S	72
	Appointed steam service manager for Steam Divisions of Westinghouse Electric Corp., Pittsburgh, Pa.	Mr	109	BAYATI, J. E.	Electrostatic precipitation—experience (C) (D) (AC)	N	82	J-line goes international	F	54
BARRETT, JACK W.	Combined standby power and air conditioning	Ja	32	BEAMS	DIGATEC (digital gas turbine engine control) (A)	Je	78	Load support of spherical squeeze-film gas bearings (A)	S	76
	Effect of parallel shear flows on cylindrical pressure probes (A)	Ap	126	BEARING MATERIALS	Extruded beams	Mr	61	Load support of the squeeze-film bearing of finite length (A)	Ja	72
BARRON, R. F.	Free-convection heat transfer to a rough plate (A)	Mr	74		Minimum weight design of beams with inequality constraints on stress and deflection (A)	Ap	131	Lubrication of aircraft instrument bearings and gears, the (A)	Ap	125
BARROWS, J. F.	Effect of parallel shear flows on cylindrical pressure probes (A)	Ap	131		On the dynamic response of a beam to a randomly moving load (A)	Ap	134	Magnetohydrodynamic journal bearing (report 1) (A)	D	66
	Filtering characteristics of long, cylindrical steel bar having discontinuities in cross-sectional area (A)	D	69		Studying curved beams	Je	93	Material considerations for high temperature tilting pad gas bearings (A)	O	73
BARTON, M. V.	Four-bar linkage design: three useful techniques	D	22	BEARINGS	Air-bearing applications to machine tools and measuring instruments (A)	S	72	Mean free path effect in spiral-grooved thrust bearings (A)	N	72
BARTON, M. W.	Fully plastic, plane-strain tension of a notched bar, the (A)	S	78		Approximate theoretical analysis of the static and dynamic characteristics of the herringbone grooved, gas lubricated journal bearing, and comparison with experiment, an (A)	S	97	Method for solution of lubrication problems with temperature and elasticity effects: application to sector, tilting-pad bearings (A)	D	66
BARTON, M. W.	Numerical analysis of combined bending and torsion of a work-hardening plastic square bar (A)	Ap	131		Application of gas-lubricated bearings to instruments (A)	S	72	Method of theoretical investigation of externally pressurized gas-lubricated bearings (A)	O	72
BARTON, M. W.	Parametric torsional stability of a bar under axial excitation (A)	S	78		Approximate theoretical analysis of the static and dynamic characteristics of the herringbone grooved, gas lubricated journal bearing, and comparison with experiment, an (A)	S	72	Numerical solution for the design of externally pressurized porous gas bearings, a: thrust bearings (A)	O	73
BARTON, M. W.	Three useful techniques in four-bar linkage design—a review (A)	Je	68		Asymptotic methods for an infinitely long slider squeeze-film bearing	Ja	73	Numerical solution for the incompressible hybrid journal bearing with cavitation, a (A)	D	67
BARTON, M. W.	Torsion of composite elastic bars of arbitrary cross section (A)	Ja	68		Axisymmetric, perfectly flexible foil bearing with porous inlet restrictor, the (A)	Ja	73	Numerical solution of linear elliptic equations, the (A)	S	73
BARTON, M. W.	Fatigue and burst analysis of Hy-140(T) steel pressure vessels (A)	N	72		Calculation of stiffness and damping properties of gas bearings (A)	S	73	On error torques of squeeze-film cylindrical journal bearings (A)	Ja	72
BARTON, M. W.	Design of tools for field and underwater use (A)	Je	72		Consideration of flow across a bearing groove (A)	Ja	72	On the local compressibility effect in spiral-groove bearings (A)	O	73
BARTON, MILLARD V.	Appointed senior technical advisor for engineering operations in addition to position as manager of Engineering Mechanics Laboratory at Systems Group of TRW Inc., Redondo Beach, Calif.	Jl	111		Crankshaft stress analysis and bearing load-carrying capacity (A)	Jl	67	One-dimensional optimum hydrodynamic gas slider bearing, the (A)	Ja	74
					Current requirements and advances in rolling element bearing technology for machine tool applications (A)	Je	70	Other patents (C)	Mr	93
					Dent-resistant bearings	My	58	Pivoted-pad journal gas bearing performance in exploratory operation of Brayton cycle turbocompressor (A)	S	75
					Design of pivoted-pad journal bearings (A)	O	73	Propagation of disturbances in the infinitely wide foil bearings, the (A)	O	72
					Design studies of an opposed-hemisphere gyro spin-axis gas bearing (A)	S	76	Rayleigh step journal bearing: part 1—compressible fluid (A)	Ja	73
					Developments in supercleaning and boundary lubrication for gas-bearing gyroscopes related to surface phenomena (A)	S	74	Response of viscoelastic fluids in dynamically loaded bearings (A)	Je	74
					Dynamic behavior of the spherical squeeze-film hybrid bearing (A)	S	72	Review of developments in externally pressurized gas bearing technology since 1959, a (A)	S	76
								Review of developments in gas-bearing gyro development in the United Kingdom (A)	S	74
								Review of numerical methods in gas bearing film analysis (A)	S	75
								Review of the state-of-the-art for the design of self-acting gas-lubricated bearings, a (A)	S	75
								Role of lubrication in propagation of contact fatigue cracks, the (A)	Ja	74
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Survey of gas-lubricated porous bearings, a (A)	Ag	51
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BEATTY, H. RUSSELL		
Elected ASME fellow	Je	115
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BEAUMONT, JAY C.		
Receives ASME 50-year pin	D	107
BEAVER, R. C.		
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BECK, J. V.		
Experiment and analysis of a flat disk squeeze-film bearing including effects of supported mass motion (A)	S	73
Load support of spherical squeeze-film gas bearings (A)	S	76
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BECKMAN, W. A.		
Radiation and convection heat transfer in a porous bed (A)	My	75
BECKMANN, H.		
Inherent scatter of wave forces on submerged structures (A)	N	75
BEDESEW, W. B.		
Prevention of catastrophic brittle fracture of heavy-wall pressure vessels (A)	N	73
BEDINGFIELD, JOHN A.		
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BEDS, POROUS		
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BEEMAN, MYRON C.		
Assigned additional responsibilities as director of project and cost control department at Detroit Edison Co., Detroit, Mich.	Ja	111
BEER, FERNAND P.		
Becomes chairman of newly merged Department of Mechanical Engineering and Mechanics at Lehigh University, Bethlehem, Pa.	Ag	99
BEER, J. M.		
Awarded degree of DScTech by University of Sheffield, Sheffield, England	O	109
BEER, W. R.		
Plant engineering in heavy construction—a unique challenge (A)	Ja	69
BEEROWER, ALAN		
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BEERY, G. T.		
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BEGGS, J. S.		
Torque transmission through Bennett mechanism (A)	N	67
BEHLER, RALPH W.		
Maintaining quality products by maintaining quality people (A)	Mr	77
BELLAMY, L.		
Influence of chemical inhibitor addition on reverse-jet flame stabilization, the (A)	My	70
BELLOWS		
Huge bellows seals bubble chamber	F	56
BELTS		
Optimal proportioning of output-modulating belt drive (A)	N	67
BENDER, E. K.		
Optimum linear preview control with application to vehicle suspension (A)	F	74
BENDER, RENE J.		
Elected ASME fellow	My	116
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In-plane bending of curved circular tubes (A)	D	74
Numerical analysis of combined bending and torsion of a work-hardening plastic square bar (A)	Ap	131
Pure bending of shallow helicoidal shells (A)	Ag	57
Secondary effects in pure bending of overlapped thin-walled tubular spacecraft booms (A)	F	72
Springback in sheet metal forming after bending (A)	Ja	62
BENFORD, A. E.		
Design considerations when using polyurethane foam in refrigeration applications (A)	Je	68
BENN, D. H.		
Gas turbines versus steam reliability analysis for a warship propulsion plant (A)	My	68
BENNER, RUSSELL E.		
Promoted to full professor, Lehigh University, Bethlehem, Pa.	Ja	112
BENNETT, GERALD E.		
Appointed to staff of Oak Ridge Y-12 Plant, Oak Ridge, Tenn.	Mr	109
BENNETT, WILLIAM		
Receives ASME 50-year pin	S	121
BENSON, CARL N.		
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BENSON, D.		
Approximate theoretical analysis of the static and dynamic characteristics of the herringbone grooved, gas lubricated journal bearing, and comparison with experiment, an (A)	S	76
BENTLEY, GEORGE		
Receives ASME certificate of appreciation	D	107
BENTLEY, ROBERT H.		
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BENTLI, E. R.		
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BENTZ, C. E.		
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BENZING, R. J.		
Lubrication techniques for use in vacuum (A)	Je	70
BERDON, L.		
Upgraded engine system using scavenging air coolers (A)	D	69
BERENS, A. S.		
Low temperature evaluation of rear axle seals (A)	Ap	124
BERENSON, PAUL J.		
Flow stability of a five-tube forced-convection boiler (A)	Ja	66
General heat transfer correlation for annular flow condensation, a (A)	Ja	65
BERG, EUGENE P.		
Elected ASME fellow	My	116
BERG, WILLIAM H.		
Promoted to district manager of Rockford, Ill., Industrial Sales Office, Vickers Division of Sperry Rand, Troy, Mich.	F	111
BERGE, KENNETH		
Today technical training is not enough! D 18; (A)	Ja	70
BERGER, JOSEPH W.		
Receives ASME 55-year certificate	Ap	157
BERGLUND, J. W.		
Interaction of a ring-reinforced shell and a fluid medium (A)	Ag	56
BERGMANN, D. A.		
Cryogenic storage systems for marine operations (A)	F	68
BERKOP, R. S.		
New method for completely force balancing simple linkages, a (A)	N	67
BERKS, WILLIAM I.		
Appointed manager of vehicle design department of space vehicles division at TRW Systems Group, Redondo Beach, Calif.	Mr	109
BERMAN, I.		
Shell theory solution for asymmetrical balanced radial loads on long cylinders (A)	Mr	79
BERNHARD, D. L.		
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BERRY, D. G.		
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BERRY, J. T.		
Measurement of short-transverse tensile-impact energy of rolled steel plate (A)	N	72
BERTAPELLE, A. H.		
Satellites and vehicles assembled in space (A)	Je	71
BERTOLINO, N. F.		
Effects of surface discontinuities on fatigue properties of cast steel sections (A)	F	69
BESANT, R. W.		
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BETTS, WALTER L.		
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BE VIER, W. E.		
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BEWSHER, MARK R.		
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BHAT, G. K.		
Electroslag remelted superalloys for gas turbine engines (A)	Ja	76
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BIENIECKI, H. S.		
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BIENSTOCK, D.		
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BIERMAN, GEORGE R.		
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BIESE, J. J.		
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BIGELOW, CHARLES G.		
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BIGELOW, CLIFFORD G.		
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BILLHARDT, FRED A.		
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BINDA, PAUL A.		
Obituary	O	112
BINDER, BERNARD A.		
Transferred from manager of Indianapolis, Ind., plant to manager of Chicago, Ill., Best Foods operating unit of Corn Products Co., New York, N. Y.	Ja	121
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BINSLEY, R. L.		
Axial turbine performance evaluation: Part A—loss-geometry relationships (A)	Ja	75
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BIOMECHANICAL ENGINEERING		
ASME-ASLE lubrication conference—space age lubricants: liquid metals, the hybrid gas bearing lubricating the human joint—NIH doctors seek aid of the engineer	D	97
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BIOMECHANICS		
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Elastic-plastic stress and strain distributions near crack tips due to antiplane shear (A)	My	75	
CHANG, C. C.			
Awarded Republic of China gold medal for science	JI	111	
CHANG, K. T.			
Investigation of analog materials for the study of deformations in metal processing simulations, an (A)	Ap	129	
CHANG, Y. F.			
Transient effects in the discharge of compressed air from a cylinder through an orifice (A)	JI	73	
CHANG, YAN-PO			
Potential treatment of energy transfer in a conducting, absorbing, and emitting medium, a (A)	Mr	74	

CHANNELS	
Distributor and stability of flow in a rotating channel, the (A)	My
Numerical solution for combined free and forced laminar convection in horizontal rectangular channels (A)	O
CHAO, B. T.	
Transient heat and mass transfer to translating droplet (A)	O
CH'AO, GRACE	
Kinematic design using computer graphics (A)	N
CHAPMAN, A. J.	
Analysis of three-fluid, crossflow heat exchangers (A)	Mr
Condensation of a pure vapor on a finite-size horizontal plate (A)	F
CHARKEY, A.	
Application considerations for the new air-zinc battery (A)	Je
CHARNEY, WILLIAM	
Obituary	Jl
CHEATHAM, J. B., JR.	
Analysis of the plastic flow of rock under a lubricated punch (A)	Ap
Plastic flow of rock under a pointed punch in plane strain (A)	Ap
CHEESEWRIGHT, R.	
Velocity distributions in two-phase vortex flow (A)	Jl
CHEMICAL ENGINEERS, AMERICAN INSTITUTE OF. <i>See</i> AMERICAN INSTITUTE OF CHEMICAL ENGINEERS	
CHEMICALS	
Influence of chemical inhibitor addition on reverse-jet flame stabilization, the (A)	My
CHEMISTRY	
Chemical milling (A)	Je
CHEN, F. Y.	
On a class of spherical linkages (A)	N
CHEN, J. C.	
Incipient boiling superheats in liquid metals (A)	O
CHEN, P.	
Design equations for the finitely and infinitesimally separated position synthesis of binary links and combined link chains (A)	N
Unified theory for the finitely and infinitesimally separated position problems of kinematic synthesis, a (A)	D
CHENEA, PAUL F.	
Receives honorary Doctor of Science degree from Rose Polytechnic Institute, Terre Haute, Ind., and honorary Doctor of Engineering degree from Purdue University, Lafayette, Ind.	N
CHENG, D. H.	
In-plane bending of curved circular tubes (A)	D
CHENG, HERBERT S.	
Behavior of hydrostatic and hydrodynamic noncontacting face seals (A)	Ap
Design of floated shoe close clearance seals for supersonic jet engine compressors (A)	Ap
Performance characteristics of spiral-groove and shrouded Rayleigh step profiles for high-speed noncontacting gas seals (A)	O
CHENG, K. C.	
Numerical solution for combined free and forced laminar convection in horizontal rectangular channels (A)	O
CHENOWETH, D. L.	
Algorithm for computing frequency response bounds for systems with variable parameters, an (A)	Mr
CHESNEY, A. J., JR.	
Water injection-pump development (A)	N
CHEVRAY, R.	
Turbulent wake of a body of revolution, the (A)	Jl
CHIANG, T.	
Dynamic behavior of the spherical squeeze-film hybrid bearing (A)	S
On error torques of squeeze-film cylindrical journal bearings (A)	Ja
CHIMNEYS	
Tall stack, the	F
CHIU, P. C.	
Approximate analysis of three two-dimensional interaction jets, an (A)	My
CHIU, W. S.	
On real fluid flow over yawed circular cylinders (A)	Ap
CHMIELEWSKI, JEROME F.	
Evaluation of an automated mass transit system (Westinghouse Transit Expressway, Skybar), an (A)	F
Generalized vector derivatives for systems with multiple relative motion (A)	S
CHONOLES, MORTON A.	
Bringing the computer to the desks of creative professionals with time-sharing (A)	Mr
CHOW, C. Y.	
Behavior of hydrostatic and hydrodynamic noncontacting face seals (A)	Ap
Performance characteristics of spiral-groove and shrouded Rayleigh step profiles for high-speed noncontacting gas seals (A)	O
CHOW, T. S.	
Elastohydrodynamic problem with a viscoelastic fluid, the (A)	Ja
CHRISTENSEN, R. M.	
On obtaining solutions in nonlinear viscoelasticity (A)	Ap
CHRISTOFFERSON, J. B.	
Site-assembled steel pressure vessels (A)	Ja
CHRISTOPHER, P. R.	
Short transverse properties of certain high-strength steels (A)	N
CHU, CHIEH	
Effect of wall heating on low-g liquid-vapor interface configuration (A)	Mr
CHU, F. K. H.	
Formation of a shock wave in the blade passage of a partial admission turbine, the (A)	Ag
CHU, H. P.	
Optimum carbon content for tempered martensitic steels (A)	My
CHU, T. Y.	
Stability considerations for a gas-lubricated tilting-pad journal bearing: part 1—analytical methods (A)	Ja
CHU, W. H.	
End thermal stresses in a long circular rod (A)	S
CHURAN, THOMAS	
Receives U. S. Air Force commendation medal at Arizona State University	My
CIRCUITRY	
Application of fluidics to low power logic circuits, the (A)	Jl
Application of integrated circuits (A)	Je
Design considerations of diaphragm circuit elements (A)	My
Development of a three-mode control using high-gain fluid amplifiers (A)	My
FACT replaces 21,000 men, a (A)	My
Fluidic processing of alternating pressure signals (A)	My
Fused diode	Ja
High density circuitry	O
High-speed position encoder and fluidic count register (A)	Ap
Precise circuit board registration	F
Transistor, the: 20 years later	Ap
Use of integrated circuitry logic for handling automation (A)	D
CLADDING	
Manufacture and testing of hollow forgings with explosion-bonded clad bores (A)	D
CLAR, WALTER R.	
Receives ASME 60-year certificate	Ap
CLARK, G. B.	
Recent research in hypervelocity impact rock disintegration (A)	Ag
CLARK, J. A.	
Dynamics of moving gas bubbles in injection cooling (A)	Mr
CLARK, J. A.	
Study of incompressible turbulent boundary layers in channel flow, a (A)	Jl
CLARK, J. M., JR.	
Stratification and combustion in reciprocating engines (A)	Jl
CLARK, R. E.	
High-temperature properties of 1½ Cr-½ Mo steel castings (A)	F
CLARK, R. R.	
Fluidics, a new study in plant controls (A)	Jl
CLARK, SAMUEL W.	
Obituary	Ap
CLARKE, J. S.	
Prevention of catastrophic brittle fracture of heavy-wall pressure vessels (A)	N
CLAY, LUCIUS D.	
Receives 1967 Hoover medal	Ja
CLEARANCES	
Effect of tolerance and clearance in linkage design (A)	N
CLIFTON, J. V.	
Condensation of a pure vapor on a finite-size horizontal plate (A)	F
CLOUD, R. L.	
Approximate analysis of the plastic limit pressures of nozzles in cylindrical shells (A)	Mr
Assessment of the plastic strength of pressure vessel nozzles (A)	D
COUGH, W. R.	
Dynamic strain aging and the Charpy specimen behavior of annealed 4340 steel (A)	My
Rosette, star, tensile fracture, the (A)	F
Split, layered, cup-and-cone tensile fracture, the (A)	F
CLUETT, SANFORD L.	
Obituary	Jl 116; errata
Receives ASME 65-year certificate	Ap
CLUTCHES	
Reducing wear in an electromagnetic clutch (A)	My
COAL	
BR (by Glenn R. Fryling) of "Combustion of Pulverized Coal" by M. A. Field, D. W. Gill, B. B. Morgan, and P. G. W. Hawley	Mr
Coal pipelines—a reappraisal (A)	N
Collection of fly ash in a self-agglomerating fluidized-bed coal burner (A)	F
Demand for coal to quadruple	Ag
Electricity from coal: the cycles	
Part 1	N
Part 2	D
Laboratory study of high-temperature corrosion on fireside surfaces of coal-fired steam generators, a (A)	My
SO-control for coal	F
Study of means for eliminating corrosiveness of coal to high-temperature surfaces of steam generating units—2 (A)	My
White collar miners	S
COATINGS	
Contribution of metallic and ceramic coatings to gas turbine engines, the (A)	Je
Plastic coatings—a unique concept in mechanical design (A)	Je
Selecting surface preparation processes for adhesive bonding, sealing, and coating (A)	Je
Semicrystalline ceramic coatings for use in high-temperature environments (A)	Je
Use of flame sprayed coatings for reduction of initial and subsequent repair costs of gas turbines and components (A)	Je
COCOA, O. A.	
Emerging role of the engineer in quality control, the (A)	Mr
COCHRAN, N. P.	
Errors crept in (C)—errata	F
CODES AND STANDARDS	
ASME briefs the press	Mr
Boiler and Pressure Vessel Code	
ASME and ASTM adopt formal agreement on material specifications	N
Interpretations, proposed revisions, and addenda	F 84; My 85; S 91; O 81; D 1968 code
Code in question (C)	Je
Performance Test Codes	
Effects of variations in municipal refuse on some incinerator design parameters, the (A)	Ja
Need for a test code for large incinerators, the (A)	Ja
Performance testing of 580-mw Joliet units No. 7 and 8 (A)	Ja
Proposed ASME performance test code for nuclear reactor fuel (A)	Ja
Revisions	S 94; O 82
Pipeline seminar (C)	Jl
Policy on safety codes	F
Power Test Codes	
Performance testing of 580-mw Joliet units No. 7 and 8 (A)	Ja
Pressure Piping, Code for	
Corrections	N
Interpretations	O 82; N 86
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COFFIN, C. W.	
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COHAN, L. J.	
Heat value of refuse, the	S

COHESION	
Gravity and vibration effects on flow of cohesive materials from hopper (A)	D
COILS	
High-speed positioning motor	Je
COLBORN, J. N.	
Comparison of calculated and measured temperature distributions in forced-convection air-cooled gas turbine airfoils, a (A)	F
COLE, JORDAN M.	
Obituary	N
COLE, R. B.	
What irony! (C)	O
COLE, RENO R.	
Blackall machine tool and gage award ..	Ja
COLEMAN, R.	
Linearization for numerical solution of the Reynolds' equation (A)	D
Numerical solution of linear elliptic equations, the (A)	S
COLEMAN, WILLIAM W.	
Receives 60-year certificate	Ap
COLEMAN-COFFEY, CHARLES E.	
Obituary	N
COLLAPSE	
Collapse of a gas-filled spherical cavity (A)	S
On cumulative collapse of cavitation cavities (A)	Ag
COLLECTORS	
Experience with electrostatic fly-ash collection equipment serving steam-electric generating plants (A)	My
COLLINS, O. T.	
Elected a director of Nalco Chemical Co., Chicago, Ill.	Ag
COLLINS, SAMUEL C.	
Elected ASME fellow	Je
Elected a vice-president of 500 Inc., Cambridge, Mass.	My
COLLISION	
Application of elastohydrodynamic lubrication theory to individual asperity-asperity collisions, the (A)	D
COLSTON, ROBERT	
Obituary	Je
COLUMBIA UNIVERSITY	
Columbia University combined plan program	D
COLUMNS	
Bubble trajectories and equilibrium levels in vibrated liquid columns (A)	Ag
Column separation accompanying liquid transients in pipes (A)	Ap
Life-saving "trombone"	Mr
Optimal design of an elastic column of thin-walled cross section (A)	S
Water-column separation at two pumping plants (A)	Ag
COMBUSTION	
BR (by Glenn R. Fryling) of "Combustion of Pulverised Coal" by M. A. Field, D. W. Gill, B. B. Morgan, and P. G. W. Hawley	Mr
Burning profiles for solid fuels (A)	F
Collection of fly ash in a self-agglomerating fluidized-bed coal burner (A)	F
Corrosion and deposits from combustion gases: a review	Ag
Elimination of combustion-driven oscillations in a large air heater (A)	F
Stratification and combustion in reciprocating engines (A)	Jl
COMING EVENTS. <i>See also</i> EXHIBITS; MEETINGS	
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Business of communication, the	S
Communicate by deed	D
Communications by the barrel	Je
Dying echo	S
Instruction by wire	S
"Phono"-graphics	F
Radio communications in refineries (A)	D
Telecommunications study	Jl
COMMUNISM	
Something to lose (Ed)	F
Subject: Russia (C)	Ap
COMPENSATION	
Big dollar, the (compensation programs for engineers)	N
COMPOSITES	
Continuum theory for a laminated medium (A)	Ag
Using boron-epoxy composites in a structural component (A)	Je
COMPRESSED AIR	
Analytical and experimental study of air-lift pump performance, an (A)	Ap
Testing pumps in air (A)	Ap
Transient effects in the discharge of compressed air from a cylinder through an orifice (A)	Jl
COMPRESSIBILITY	
On the local compressibility effect in spiral-groove bearings (A)	O
COMPRESSOR	
Axially symmetric creep buckling of circular cylindrical shells in axial compression (A)	S
COMPRESSORS. <i>See also</i> TURBOCOMPRESSORS	
Application of end-wall boundary-layer effects in the performance analysis of axial compressors, the (A)	F
Compressor load control systems (A)	N
Correlation of end wall losses in plane compressor cascades, a (A)	Je
Design of one-piece jet-engine compressor end seals (A)	S
Development of a compact, prepackaged, high-horsepower engine compressor (A)	Jl
Development of inlet for an axial compressor (A)	My
Dust erosion of compressor materials—experience and prospects (A)	Je
Dynamic plastic buckling of cylindrical shells in sustained axial compressive flow (A)	S
Field experience with digital engine-compressor indicator (A)	D
High-speed cascade testing and its application to axial flow supersonic compressors (A)	Je
Independent solution for piston gas compression (A)	Ag
Modern approach to acceptance testing of gas compressors (A)	N
Novel low cost diffuser for high performance centrifugal compressors, a (A)	My
Photographic study of the three-dimensional flow in a radial compressor, a (A)	My
Precision-balanced pressure indicator for a compressor and data-reduction technique for the acceptance test (A)	Jl
Reynolds number effects in axial compressors (A)	F
Variable geometry gas turbine radial compressors (A)	Je
COMPTON, W. A.	
Dust erosion of compressor materials—experience and prospects (A)	Je
COMPUTATION	
High-speed computing techniques applicable to fluidic digital computation (A)	Ag
COMPUTER CONTROL	
Computer-controlled pipelines	D
COMPUTER-AIDED DESIGN	
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Plotting tooth profiles for gears with the computer (A)	Jl
Separable tube connector and specialized seal generated by computer-aided design technique, a (A)	Jl
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Banking and computers	S
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"Century" for programming, a	Je
Challenges and opportunities of computers (A)	Mr
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Computer goes to Smithsonian: Monsanto donates youngest antique to institution's museum	Ap
Computer systems planning	Ag
Computer takes over	Ap
Computerized method of characteristics calculations for unsteady pneumatic line flows (A)	Ag
Converts symbolic language to machine instruction	Ag
DIGATEC (digital gas turbine engine control) (A)	Je
Direct reader	N
Engineering team produces unique computer-animated instructional film	Ag
Experimental study of the combined geometric analog computer (A)	Ja
First simulate that capital investment Ja	
Forgery or original? Museum unveils invaluable object: The computer as an aid to the arts	Je
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"Instant" library service	My
Joint engineering management conference — the computer: its impact on management today and in the future	D
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Needed: handwriting readers	Ja
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Satellite at the helm	N
Scientific approach to systems planning, a (A)	Mr
Selection of computing systems for engineering application	Je
Technicians boss computers	Ja
Theoretical study of the combined geometric analog computer (A)	Ja
Two mechanical engineers—and a computer (A)	Mr
White collar miners	S
COMSTOCK, J. M.	
Uses of titanium in deep submergence vehicles (A)	Je
CONAN, LEO J.	
Potential energy-conversion aspects of refuse (A)	Ja
CONCORDE	
Olympus engine for the Concorde	N
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CONDENSATION	
Condensation of a pure vapor on a finite-size horizontal plate (A)	F
Integral-method solution of laminar condensation with shear in stagnant vapor (A)	O
CONDENSERS	
Copper-iron-phosphorus alloy for condenser and other heat-exchanger tube applications, a (A)	Mr
Economics of the condenser circulating water supply in power stations, the (A)	F
Internally finned tubes—a design tool to improve condenser performance (A)	Mr
Thermodynamic and economic appraisal of multipurpose condensers (A)	N
CONDUCTION	
Transient temperature distribution in one-dimensional heat-conduction problems with nonlinear boundary conditions, the (A)	N
CONFERENCES. <i>See</i> MEETINGS	
CONLIN, A. BRUCE, JR.	
Appointed director, technical department for ASME	Ap
CONNECTORS	
Analysis of clamp-type separable fluid connectors for nuclear vessel applications (A)	D
Right connection, the	Ap
Separable tube connector and specialized seal generated by computer-aided design technique, a (A)	Jl
CONNELL, MAURICE H.	
Obituary	Ja
CONNELLY, JOHN ROBERT	
Code in question (C)	Je
CONOVER, R. A.	
Laminar flow between a rotating disk and a parallel stationary wall with and without radial inflow (A)	Ag
CONSTAM, ALYN F.	
Obituary	Je
CONSTANTINESCU, V. N.	
Note on the influence of the heat transfer between the surfaces as a secondary effect in gas lubrication (A)	Ag
On the influence of magnetic and electrical fields in gas lubrication (A)	S
On the local compressibility effect in spiral-groove bearings (A)	O
CONSTRAINTS	
Roberts' cognates of space four-bar mechanisms with two general constraints (A)	N
Systematic pair-reduction procedure for constraint problems (A)	N
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Plant engineering in heavy construction—a unique challenge (A)	Jl
CONTACT	
Contact conformity effects on spinning torque and friction (A)	D
Deep groove rolling contact parameter, a (A)	D
Discrete-continuum approach to the solution of the contact of rotating circular surfaces, a (A)	D
Elastic contact of a strip pressed between two cylinders (A)	S

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Electron fractographic study of spalls formed in rolling contact, an (A)	Mr	76	Study of means for eliminating corrosiveness of coal to high-temperature surfaces of steam generating units—2 (A)	My	72	CREAGER, PAUL S.	
Future research in rolling contact fatigue (A)	Mr	76	Sulfur oxide reactions: radioactive sulfur and microprobe studies of corrosion and deposits (A)	My	73	Obituary	S 124
Identification of potential failure nuclei in rolling contact fatigue (A)	Mr	76	CREATIVITY				
Influence of water on fatigue-failure location and surface alteration during rolling-contact lubrication (A)	D	76	Creative design: the mental mechanics ...O	20			
Profile contact ratio of involute gearing (A)	D	76	Creative engineering class is also a lesson in involvement	Ag 78			
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Design of a shipping container for the new generation of nuclear power reactor fuel assemblies (A)	Ja	70	Hidden connection, the	Jl 14			
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Interaction of a sloshing liquid with elastic containers (A)	Ag	68	CREEP				
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Discrete-continuum approach to the solution of the contact of rotating circular surfaces, a (A)	D	66	High-temperature properties of 1/4 Cr-1/2 Mo steel castings (A)	F 69			
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CONVECTION		53	CRESWELL, JAY S., JR.				
Numerical solution for combined free and forced laminar convection in horizontal rectangular channels (A)	O	68	Modeling approach to motor vehicle inspection, a (A)	F 70			
CONVERTER		59	CROFT, HUBER O.				
English to metric converter	N	59	Receives 1968 distinguished service in engineering award from College of Engineering, University of Missouri at Columbia	Je 113			
CONVEYORS		68	CROSSLEY, F. R. ERSKINE				
Arc-shaped conveyor section	N	64	Elected ASME fellow	D			
Nonslip conveyor drive	Mr	67	Kinetic static synthesis of flexible link mechanisms (A)	N 67			
Ore conveyor system	O	64	Structural synthesis of a four-bit binary adding mechanism (A)	D 73			
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COOLANTS		COUPLED POINTS		CROTTES, MARCUS B.			
Analysis of the effect of using reactive coolants in porous-body cooling (A)	O	72	Receives American Society of Tool and Manufacturing Engineers 1968 award of honor	D 107			
Containment transient resulting from accidental loss of coolant in pressurized water nuclear reactor (A)	N	71	CROUSE, RODNEY J.				
Experimental study of ammonia as a reactive transpiration coolant, an: porous body cooling (A)	O	69	Obituary	F 113			
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Analysis of the effect of using reactive coolants in porous-body cooling (A)	O	72	Cold future?, a	O 87			
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Experimental study of ammonia as a reactive transpiration coolant, an: porous body cooling (A)	O	71	Cryogenic flow measurement for custody transfer (A)	Ja 67			
COON, THURLOW E.		COZARELLI, FRANCIS A.		Cryogenic pumps for gas pipeline standby systems (A)	Ja 67		
Receives ASME 60-year certificate	Ap	69	Cryogenic rocket propellants	Je 38; (A)	Mr 68		
COOPER, KENNETH D.		COX, J. E.		Cryogenic storage systems for marine operations (A)	F 68		
Obituary	F	72	Cryogenic underground cable	Je 91			
COOPER, L. THOMAS, III		COXIE, ALEXANDER		Deep ice probe	My 59		
Arthur L. Williston medal and award	Ja	69	Dynamic valve seal at cryogenic temperatures	Ap 119			
COOPER, WILLIAM E.		Elected ASME fellow	Ja 123				
Promoted to vice-president and manager of engineering, Teledyne Materials Research, Waltham, Mass., division of Teledyne, Inc., Hawthorne, Calif.Je		Kinematics of contacting surfaces, the (A)	Ja 68				
COPPER		COXON, J. E.		FREEZE-DRYING			
Nuclear fracture	F	71	Operation of rapid transients (A)	N 75			
Plastic deformation of copper and steel in hot extrusion through conical dies (A)	Ap	69	Recent advances in laboratory instruction (A)	D 69			
CORDOVI, MARCEL A.		COZZARELLI, FRANCIS A.		FREEZING			
Named manager of application engineering for International Nickel, New York, N. Y.D		Awarded National Science Foundation faculty science fellowship, 1968-1969	My 115				
CORLEY, HARVEY S.		CRACKING					
Obituary	Ap	Operation of large steam turbines to limit cyclic thermal cracking, the (A)	F 75				
CORROSION AND DEPOSITS		Von Karman hydraulic vortices causes stay vane cracking on propeller turbines at the Little Long generating station of Ontario Hydro (A)	My 77				
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Corrosion of sucker-rod steels in a simulated sweet-oil environment (A)	D	Effect of mean stress on fatigue crack propagation in plates under extension and bending, the (A)	F 68				
Corrosion protection process for edges of porcelain enameled products (A)	Je	Fatigue-crack growth-rate studies of low-alloy pressure-vessel steels (A)	D 74				
Effect of water chemistry and design on corrosion of carbon steel tube feedwater heaters (A)	N	Fractographic studies of fatigue in cast steel (A)	F 70				
Electrode processes in the corrosion of steel by sulfate deposits (A)	My	Parametric relationship between fatigue life, cyclic stress, and crack length in flat panels and cylinders, a (A)	Mr 70				
In-place detection of pipeline corrosion	Je	Path independent integral and the approximate analysis of strain concentration by notches and cracks, a (A)	S 70				
Laboratory study of high-temperature corrosion on fireside surfaces of coal-fired steam generators, a (A)	My	Role of lubrication in propagation of contact fatigue cracks, the (A)	Ja 74				
Research on internal corrosion of high-pressure boilers, a—final report (A)	N	Split, layered, cup-and-cone tensile fracture, the (A)	F 70				

CUSHMAN, D. J.			
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CUTLER, A. J. B.			
Electrode processes in the corrosion of steel by sulfate deposits (A)	My		
CYLINDERS			
Analytical study of separated flow about circular cylinders, an (A)	JI		
Closure and shell joints for large high-pressure cylinders (A)	N		
Designing flush cylinder-to-cylinder intersections to withstand pressure (A)	N		
Effect of container capacitance on thermal transients in plane walls, cylinders, and spheres (A)	O		
Elastic contact of a strip pressed between two cylinders (A)	S		
Evaluating wear of cylinders and piston rings by quick spectrographic sampling method (A)	JI		
Experimental investigation of heat transfer from a spray cooled isothermal cylinder, an (A)	O		
Hydroelastic forces on bluff cylinders (A)	JI		
Influence of vortex generators on the drag and heat transfer from a circular cylinder normal to an airstream, the (A)	N		
Near-wake of a circular cylinder in cross-flow, the (A)	JI		
On error torques of squeeze-film cylindrical journal bearings (A)	Ja		
On real fluid flow over yawed circular cylinders (A)	Ap		
On the spherical oscillating cylinder mechanism (A)	D		
Plastic behavior of open-end and closed-end thick-walled cylinders (A)	Mr		
Pressure of flow material on rigid walls of deep cylindrical bins (A)	D		
Shell theory solution for asymmetric balanced radial loads on long cylinders (A)	Mr		
Transient effects in the discharge of compressed air from a cylinder through an orifice (A)	JI		
Transient motion of a rigid cylinder produced by elastic and acoustic waves (A)	Ag		
Unsteady lift forces generated by vortex shedding about a large, stationary, and oscillating cylinder at high Reynolds numbers (A)	Ag		
Unsteady rotating flow in a cylinder with a free surface (A)	JI		
Wave function expansions and perturbation method for the diffraction of elastic waves by a parabolic cylinder (A)	Ap		
CAZPARI, WILLIAM A.			
Named manager of marketing for Illinois Tool Works, Machine and Instrument Division, Chicago, Ill.	D		
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DAREING, D. W.			
Buckling and lateral vibration of drill pipe (A)	N		
Longitudinal and angular drill-string vibrations with damping (A)	N		
DAHLSTRAND, HANS P.			
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DAHLUND, E. L.			
Appointed vice-president of engineering, Fairbanks Morse Power Systems Division of Col Industries, Beloit, Wis.	My		
DALE, J. R.			
Dynamic response of a suspended hydrophone to wave and flow effects (A)	JI		
DALGAARD, S. B.			
Some factors controlling hydrogen damage in carbon steel (A)	N		
DALIN, G.			
Application considerations for the new air-zinc battery (A)	Je		
DALLMANN, C. H.			
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DALTON, WILLIAM			
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DALY, R.			
Seal technology assures reliability (A)	Mr		
DALZELL, R. CARSON			
Elected ASME fellow	Ag		
DALZELL, W. H.			
Optical constants of soot and their application to heat-flux calculations (A)	O		
DAMPERS			
Damping device for antenna masts	O	53	
Variable stiffness damper	My	52	
DAMPING			
Calculation of stiffness and damping properties of gas bearings (A)	S	78	
Longitudinal and angular drill-string vibrations with damping (A)	N	74	
DANDELAK, JAMES			
Obituary	My	119	
DA ROCHA, P. M. A.			
Stress concentration factors in shouldered shafts subjected to combinations of flexure and torsion (A)	Ja	68	
DAS, BIMAN			
Becomes supervisor of Operations Analysis for United Aircraft of Canada Ltd., Jacques-Cartier, P. Q., Canada	My	115	
DASTEN, P. R.			
Design and performance features of molten-salt breeder reactors (A)	Ja	70	
DATA PROCESSING. <i>See also</i> COMPUTERS			
"Century" for programming, a	Je	57	
Computer takes over	Ap	142	
Direct reader	N	61	
Evaluation of generating station maintenance using an electronic data processing procedure (A)	JI	69	
First data-processing center	N	64	
Information service expands	My	90	
Learning "package"	S	101	
Meaningful data: nationwide network of data processing facilities	Ap	117	
Technicians boss computers	Ja	84	
DATA SYSTEMS			
National standard reference data system, the (A)	Je	73	
DAVIDSON, EDWARD H.			
Obituary	N	112	
DAVIES, CLARENCE E.			
Named honorary member	Ja	98	
DAVIES, T.			
Systematic pair-reduction procedure for constraint problems (A)	N	66	
DAVIS, BENJAMIN G.			
Awarded a doctorate in education by Syracuse University	Je	118	
DAVIS, LOUIS B.			
Appointed to newly created position of vice-president of product engineering for American Steel Foundries, Chicago, Ill.	S	121	
DAVIS, F. F. JR.			
Reducing smoke from gas turbines	JI	29	
DAVIS, FRANK W.			
Elected ASME fellow	My	116	
DAVIS, HARRY C.			
Appointed district manager of Link-Belt Wilmington Plant, Wilmington, Del.	Mr	109	
DAVIS, WILLARD F.			
Named manager of newly formed Planning and Information Systems Department of Pressurized Water Reactor Plant Division, Westinghouse Electric Co., Pittsburgh, Pa.	My	115	
DE ANGELIS, CHARLES E.			
We goofed (C)	Mr	82	
DE BAKEY, M. E.			
Plastic microemboli formed in roller and finger pumps (A)	F	71	
DEBB, ARTHUR D.			
NDT: nondestructive testing of tubes	My	32	
DE CENZO, PETER E.			
Obituary	F	113	
DECKER, B. E. L.			
Transient effects in the discharge of compressed air from a cylinder through an orifice (A)	JI	73	
DECKER, OTTO			
Dynamic seal technology: trends and developments			
Part 1: seal types	Mr	28	
Part 2: floating and visco seals	Ap	99	
Part 3: centrifugal and dynamic seals	My	44	
DECORSO, S. M.			
Reducing smoke from gas turbines	JI	29	
DEFENSE SYSTEMS. <i>See</i> DETECTORS			
DEFORMATION			
Controlled crush	Ja	56	
Dynamic expansion of a spherical cavity in an elastic, perfectly plastic material (A)	S	77	
Investigation of analog materials for the study of deformations in metal processing simulations, an (A)	Ap	129	
Plastic deformation of copper and steel in hot extrusion through conical dies (A)	Ap	129	
DEGA, R. L.			
Zero leakage: results of an advanced lip seal technology (A)	Mr	70	
DE GRAVE, C.			
Shortening the development time—idea to prototype (A)	Je	73	
DE HAVEN, HUGH			
Recipient of 1967 Elmer A. Sperry award	Mr	110	
DEHYDRATION			
Heat and mass transfer mechanisms in sublimation dehydration (A)	F	73	
DE LA MACORRA, JOSE			
Obituary	O	112	
DELHOM, L. A.			
Solid-state terminology for the design engineer	O 42;	Je	68
DELISTOVIC, JOHN A.			
Obituary	N	112	
DELLPLAIN, MORSE			
Obituary	My	119	
DELLY, ARTHUR T.			
Received ASME 55-year certificate	Ap	157	
DELUCA, FRANK			
Adaptive control for prime movers (A)	F	74	
DEMETRI, E. P.			
Heat-exchanger optimization for a regenerative small-gas-turbine cycle (A)	Je	78	
DEMING, LEROY F.			
Obituary	N	110	
DEMAREST, KEITH E.			
Solid lubrication technology: a review (C)	(D)	My	81
DENHARD, W. G.			
Application of gas-lubricated bearings to instruments (A)	S	72	
DENHOY, BALWANT S.			
No patent claims (C)	Ag	62	
DENNAR, E. A.			
Evaluation of the differential approximation for spherically symmetric radiative transfer, an (A)	O	67	
DENSITY			
"Density effect" model, the: prediction and verification of the flow oscillation threshold in a natural-circulation loop operating near the critical point (A)	F	72	
DENTON, ARTHUR S.			
Critique of in-place annealing of SM-1A nuclear reactor vessel (A)	My	74	
DEPIERRE, V.			
Plastic deformation of copper and steel in hot extrusion through conical dies (A)	Ap	129	
DEREMER, JAY			
Received ASME 55-year certificate	Ap	157	
DE ROCKER, D. E.			
Gear couplings (A)	Ja	68	
DESIGN AND DRAFTING			
Design/drafting survey	Mr	86	
DESIGN ENGINEERING. <i>See also</i> COMPUTER-AIDED DESIGN			
Annular orifice dashpots for accurate time delay applications (A)	Je	73	
Application considerations for the new air-zinc battery (A)	Je	71	
Application of fluids to low power logic circuits, the (A)	JI	74	
Application of integrated circuits (A)	Je	73	
Application of the positive thermoelectric coefficients of nickel-iron alloys to wide-temperature-range Belleville springs (A)	Ja	68	
Applications of precision ball screws to machine tools (A)	Je	69	
Automated electromechanical inspection (A)	Je	72	
Bending of circular plates			
Part I: under a variable symmetrical load (A)	My	78	
Part II: under a uniform load on a concentric circle	My	78	
BR (by F. W. Boulier) of "Forge Equipment, Rolling Mills, and Accessories" by A. Geleji	F	82	
Computerized estimation of manpower and scheduled workloads—a concept of management control (A)	Je	67	
Controlling expenditures in a small engineering group (A)	Je	72	
Controlling torsional vibration in rotating machines (A)	Je	70	
Corrosion protection process for edges of porcelain enameled products (A)	Je	71	
Creative design: the mental mechanics	O	20	
Current practices in molded gearing (A)	Je	73	
Current requirements and advances in rolling element bearing technology for machine tool applications (A)	Je	70	
Design and construction of micromechanical devices (A)	Je	73	

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Design considerations when using polyurethane foam in refrigeration applications (A)	Je	Stress analysis of shells of revolution under arbitrary loading (A)	My	Performance centrifugal compressors, a (A)	My
Design criteria for generalized high strain (A)	F	Stress concentration factors in shouldered shafts subjected to combinations of flexure and torsion (A)	Ja	Performance and flow regimes for annular diffusers (A)	Ap
Design engineering conference and show		Structural applications of honeycomb materials (A)	Jl	DIFFUSION	
Design engineering '68 (Ed)	Mr	Tapping the practical technological advances from NASA projects (A)	Jl	Interferometric technique for measuring binary diffusion coefficients, an (A) ...O	70
Design for fatigue based on energy concept (A)	Je	Technological fallout	My	DIJKSMAN, E. A.	
Design of a high-speed barge-mounted materials-handling system (A)	Je	Three useful techniques in four-bar linkage design—a review (A)	Je	Calculation and construction of the Burmester points for five positions of a moving plane (A)	D
Design of devices for optimum blood flow (A)	Je	Three-dimensional kinematic synthesis ..Ja	68	Coordination of coupler-point positions and crank rotations in connection with Roberts' configuration (A)	D
Design of equipment for challenging environments (A)	Je	Tolerance factors in P/M parts production (A)	Je	DILLENBECK, WARREN H.	
Design of plastic structures for deep sea use (A)	Je	Toothed couplings—analysis and optimization (A)	My	Garbled burb (C)—errata	F
Design of tools for field and underwater use (A)	Je	Torsion of composite elastic bars of arbitrary cross section (A)	Ja	DILLER, S. V.	
Detection of mechanical component malfunction caused by friction and wear (A)	Je	Ultrasonics versus radiography (A)	Je	Instantaneous energy dissipation rate in a lap joint—uniform clamping pressure (A)	S
Developing effective compensation programs for engineers (A)	Je	University- and state-supported research and service centers (A)	Je	DIMOFTE, F.	
Diaphragm-actuated fluidic interface devices (A)	Je	Uses of titanium in deep submergence vehicles (A)	Je	On the influence of magnetic and electrical fields in gas lubrication (A)	S
Displacement and velocity kinematic synthesis (A)	F	Using boron-epoxy composites in a structural component (A)	Je	DiPRIMA, R. C.	
Electrical and pneumatic actuators for aerospace applications (A)	Je	Weighing the value of a performance appraisal program (A)	Je	Asymptotic methods for an infinitely long slider squeeze-film bearing (A)	Ja
Engineer in politics and community affairs, the (A)	Je	What is available in solid-state devices? (A)	Je	Higher order approximation in the asymptotic solution of the Reynolds equation for slider bearings at high bearing numbers (A)	S
Equipment needs for alleviating the crisis in traffic control (A)	Je	DETRESSEUX, N.		DIRECTORIES. See LITERATURE	
Expanding the application of powder metal parts through heat treatment (A)	Je	Freezing of hydraulic systems (A)	O	DIRECTORIES. See LITERATURE	
Fiberglass-reinforced plastic materials (A)	Je	DETECTORS. See also INSTRUMENTS, DETECTING		DIRECTORIES. See LITERATURE	
Fluidic power amplifiers for valving systems (A)	Je	Electronic umbrella	Je	Asymptotic solution for laminar flow of an incompressible fluid between rotating disks, an (A)	Ag
Four-bar linkage design: three useful techniques	D	Mini-fission	S	Consequences of spline friction in multiple-disk brake and clutch packs, the (A) ..Ja	74
Fundamental frequency of incomplete circular cantilever rods (A)	F	Prospecting with Californium	N	Experiment and analysis of a flat disk squeeze-film bearing including effects of supported mass motion (A)	S
Gear couplings (A)	Ja	Remote-controlled mine detection	D	Flow between two parallel circular disks, one of which is subject to a normal sinusoidal oscillation, the (A)	S
Handling interface problems between electronic and machine components (A) ..Je		Sound approach	Ap	Flow oscillation in the laminar radial flow of incompressible fluids between disks (A)	128
High-temperature injection molded plastics (A)	Je	Waveguide detector of the night-flying moth	D	Heat transfer in the radial creeping flow between parallel disks (A)	Ja
Information, computers and design (A) ..Je		DETTMERING, W.		High-speed positioning motor	Je
Kinematics of contacting surfaces, the (A)	Ja	Influence of sidewall friction on the flow in multistage axial-flow turbomachines (A)	Ag	Laminar flow between a rotating disk and a parallel stationary wall with and without radial inflow (A)	Ag
Lubrication techniques for use in vacuum (A)	Je	DEVELOPING COUNTRIES		Linear inward flow of an incompressible fluid between rotating disks, with full peripheral admission (A)	Ag
National standard reference data system, the (A)	Je	International development projects	Ap	Pressure, frictional resistance, and flow characteristics of the partially wetted rotating disk (A)	Mr
New approach to size selection, a	F	Peace corps and VITA sign contract for technical assistance	Ap	DIVING	
New approach to vibration isolation for low frequency sources, a (A)	Je	DEVINE, ALOYSIUS J.		Tools for deep-diving operations (A) ..F	66
New controlled temperature chamber for use with tensile testing machines, a (A)	My	Obituary	Mr	Tools for the scientific diver	My
Optimal synthesis of randomly generated linkages (A)	F	DEVINE, M. J.		DIZER, JOHN	
Organic and molten salt electrolytes (A)	Je	Engineering design of oil-free internal combustion engines (A)	Jl	Named head of mechanical technology department at Mohawk Valley Community College, Utica, N. Y.O	109
Plastic coatings—a unique concept in mechanical design (A)	Je	DE WINTER, FRANCIS		DOCKERY, JOHN T.	
Plotting tooth profiles for gears with the computer (A)	Jl	Intermeshing fins as a means of increasing radiation heat transfer between opposing surfaces (A)	Mr	Automated (unmanned) Mars sample return missions (A)	Mr
Polycarbonates, the (A)	Je	Metric melee (C)	D	DODGE, F. T.	
Reducing wear in an electromagnetic clutch (A)	My	To be or not to be (C)	Jl	End thermal stresses in a long circular rod (A)	S
Regional development laboratory, the—a self-help resource (A)	Jl	DHOOPAR, B. L.		DOHRMANN, R. J.	
Satellites and vehicles assembled in space (A)	Je	Symmetric arc solutions of $\zeta = \zeta^*$ (A) ..S	78	Thermal stress analysis of nonuniformly heated cylindrical shell and its application to a steam generator membrane wall (A)	Mr
Savings through use of value analysis techniques in engineering (A)	Je	DIAMONDS		DOLEZAL, EDWARD	
Scheduling and controlling concurrent design jobs (A)	Je	Diamonds (synthetic, that is) are an industry's best friend	O	Elected ASME fellow	O
Secondary effects in pure bending of overlapped thin-walled tubular spacecraft booms (A)	F	DI BOLL, W. B., JR.		DONALDSON, ROBERT M.	
Selecting surface preparation processes for adhesive bonding, sealing, and coating (A)	Je	Suspension dynamics by computer simulation (A)	My	Elected ASME fellow	Ap
Selection of computing systems for engineering application (A)	Je	DICKINSON, R.		DONLEY, EARL H.	
Semicrystalline ceramic coatings for use in high temperature environments (A)	Je	Diaphragm valve fluidics (A)	My	Appointed general manager of International Sales Department of Babcock & Wilcox Company's Boiler Division, New York, N. Y.Mr	110
Separable tube connector and specialized seal generated by computer-aided design technique, a (A)	Jl	DICTIONARIES. See LITERATURE		DONNELLY, FRANCIS J.	
Shortening the development time—idea to prototype (A)	Je	DIEHL, ERLE K.		Elected ASME fellow	F
Solid-state terminology for the design engineer (A)	O 42; Je	Awarded certificate of excellence for best paper presented to ASME Fuels Division in 1966 ..Mr	109	DONNELLY, JAMES J., JR.	
		DIELECTRICS		Taking exception (C)	Je
		Study of thick film solutions for radiative transfer between two dielectrics, a (A) ..O	67	DOOLITTLE, JESSE S.	
		DIETRICH, HARRY W.		Elected ASME fellow	F
		Appointed head of new project control engineering department of Consolidated Edison Co. of New York, Inc., New York, N. Y.My	115	DORMAN, T. E.	
		Electrostatic precipitation—experience (C) (D) ..N	82	Application of controlled-vortex aerodynamics to advanced axial flow turbines, the (A)	My
		DIES		DOSANJH, D. S.	
		Better die life	S	Experimental investigation of the formation and flow characteristics of an impulsively generated vortex street, an (A)	S
		DIESEL AND GAS ENGINE POWER. See ENGINE POWER, DIESEL AND GAS			82
		DIESELS			
		Danish CODOG frigates operational progress report (A)	Je		
		DIETRICH, M. W.			
		Contact conformity effects on spinning torque and friction (A)	D		
		DIETZ, ALBERT G. H.			
		Presented with New England award of Engineering Societies of New England ..Je	113		
		DIFFUSERS			
		Novel low cost diffuser for higher per-			

DOUGALL, RICHARD S.			
Investigation into the role of thermal fluctuations on bubble nucleation in pool boiling, an (A)	Mr	74	
Study of the temperature profiles measured in the thermal sublayer of water, Freon-113, and methyl alcohol during pool boiling, a (A)	O	68	
DOUGHERTY, D. E.			
Investigation of externally pressurized steam-lubricated journal bearing (A) Ag		50	
DOUGLASS, HOWARD W.			
Cryogenic rocket propellants	Je 38; (A)	Mr	68
DOW, WILLARD M.	Obituary	Ja	127
DOWLING, G. B.	Tools for the scientific diver	My	22
DOWLING, DONALD L.	Obituary	O	112
DOWNS, JOHN W.			
Appointed maintenance sales engineer by Combustion Engineering, Inc., Windsor, Conn.	Mr	109	
DOYLE, FRANK P.	Obituary	N	112
DRAFTING EQUIPMENT			
At last . . . the drawing board typewriter D		40	
DRAG			
Influence of vortex generators on the drag and heat transfer from a circular cylinder normal to an airstream, the (A)	N	77	
DRAPER, CHARLES S.			
Receives 1967 distinguished public service medal at NASA's annual awards ceremony in Washington, D. C.	Ja	121	
DREFFEIN, HENRY A.			
Receives ASME 55-year certificate	Ap	157	
DRESDEN, ANTON			
Receives National Honor Award for Engineering Excellence for design of ophthalmophakometer	O	110	
DRILLING			
Vertical billet drilling machine	Ja	61	
DRILLS			
Lunar drill	Je	55	
DRIVER, ARTHUR H.			
Receives ASME 55-year certificate	Ap	157	
DRIVES			
Optimal proportioning of output-modulating belt drive (A)	N	67	
DRouILLARD, THOMAS F.			
Joins Rocky Flats Division of Dow Chemical Co., Golden, Colo., as senior development specialist in nondestructive testing	Ag	99	
DRUCKER, DANIEL C.			
Becomes vice-president of ASME communications policy board	N	101	
Named dean of College of Engineering, University of Illinois, Urbana, Ill.	O	109	
DRUTOWSKI, R. C.			
Contact elasticity of seal elastomers (A)	Mr	73	
DSHGHY, S.			
Thermal aspects of the abrasive cutoff operation: part 2—partition functions and optimum cutoff (A)	Ap	129	
D'SOUZA, A. F.			
Triple input describing function and applications to the stability of nonlinear systems (A)	F	73	
DUBLER, R. D.			
Minimum inertia gear train design (A) Mr		80	
DU BREUIL, FELIX			
Awarded certificate of excellence for best paper presented to ASME Fuels Division in 1966	Mr	109	
DUBYNIN, N. G.			
Kinematics and dynamics of bulk solids during discharge orifices (A)	D	62	
DUCTS			
Coupled laminar heat transfer and sublimation mass transfer in a duct (A)	Ja	65	
Experiments on two-component stratified flow in a horizontal duct (A)	N	76	
Fluidic technique for measuring the average temperature in a gas turbine exhaust duct, a (A)	Je	75	
Influence of axial heat diffusion in liquid-metal-cooled ducts with specified heat flux, the (A)	Mr	76	
DUGGAN, HERBERT G.			
Becomes vice-president of Region IV	N	101	
DUGGINS, R. K.			
Stability of a simple surge tank, the (A)	Ap	127	
DUKE, J. M.			
Thermal stress analysis of nonuniformly heated cylindrical shell and its application to a steam generator membrane wall (A)	Mr	78	
DUKEHART, J. R.			
Selection and utilization of diesel locomotives (A)	My	73	
DUNCAN, P. R.			
Convection heat transfer from broad leaves of plants (A)	Mr	76	
DUNCAN, THEODORE N.			
Appointed vice-president—general manager of Mobile Hydraulics Division of Sperry Rand Corporation's Vickers Division, Detroit, Mich.	O	109	
DUNCAN, THOMAS C.			
Becomes a senior vice-president of Consolidated Edison Co. of New York, Inc., New York, N. Y.	My	115	
DUNFEE, J.			
Current requirements and advances in rolling element bearing technology for machine tool applications (A)	Je	70	
DUNN, J. T.			
Site-assembled steel pressure vessels (A)	Ja	71	
DUNNING, JOHN R.			
Elected ASME fellow	Je	115	
DURBECK, ALBERT C.			
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DURCHER, L. J.			
Ballistic air cleaner concept for Army vehicular gas turbines, the (A)	Je	78	
DURON, PAUL P.			
Appointed president of Airco Cryogenics Division of Air Reduction Co., Inc., New York, N. Y.	Ap	157	
DUSOURD, J. L.			
Investigation of pulsations in the boiler feed system of a central power station, an (A)	Jl	72	
DUST EROSION			
Dust erosion of compressor materials—experience and prospects (A)	Je	76	
DUST REMOVAL			
Experience with electrostatic fly-ash collection equipment serving steam-electric generating plants (A)	My	72	
High-collection efficiency	My	60	
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Weakeness in the conventional theory of electrostatic precipitation (A)	My	72	
DUZY, A. F.			
Burning profiles for solid fuels (A)	F	77	
Measuring abrasiveness of solid fuels and other materials by a radiochemical method (A)	F	77	
DWELLS			
Design of coupler-driven dwell mechanisms using computer-developed synthesis curves (A)	N	69	
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Dwyer, JOHN J.			
Obituary	N	112	
DYE, EDWARD R.			
Recipient, posthumously, of 1967 Elmer A. Sperry award	Mr	110	
DYER, D. F.			
Heat and mass transfer mechanisms in sublimation dehydration (A)	F	73	
DYNAMICS			
Kinematics and dynamics of bulk solids during discharge from orifices (A)	D	62	
DZAKOWIC, G. S.			
Analytical solution for the transient temperature of a heated surface during microlayer evaporation, an (A)	Ja	66	
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EARTH SCIENCE			
Technological fallout	My	60	
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EARTH-MOVING TECHNOLOGY			
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EARSTON, E. C.			
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Merging engineering and art: Exciting new group "matches" artists and engineers for collaborative art projects	F	86	
EBDON, HUBERT G.			
Board chairman of Combustion Engineering, Inc., New York, N. Y., retires after more than 50 years of service	Ag	99	
EBERBACH, R.			
Recent wind-tunnel testing of the northeast corridor high-speed cars (A)	Ja	68	
EBERHARDT, A. D.			
Identification of potential failure nuclei in rolling contact fatigue (A)	Mr	76	
EBERHARDT, HENRY E.			
Receives ASME 55-year certificate	Ap	157	
ECHEGOYAN, ORLANDO			
Joins Texaco Inc., Port Arthur, Texas, as mechanical engineer in utilities division	N	107	
ECKERT, E. R. G.			
Film cooling with injection through holes: adiabatic wall temperatures downstream of a circular hole (A)	My	71	
Plasma heat transfer (A)	O	72	
ECKMAN AWARD, DONALD P.			
Applications being accepted	Ap	148	
ECONOMICS			
Ancient caravan routes become modern highway	Mr	89	
More on checkless society	Ag	77	
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U. S. industrial economy, the: better than 1967—with a few ifs (tight money, Vietnam, strikes, inflation)	F	88	
EDDIE, C. R.			
Automatic highway (C)	D	75	
EDDISON, WILLIAM BARTON			
Receives ASME 55-year certificate	Ap	157	
EDESKUTY, J. V.			
Engine operating economics in total-energy plants (A)	Jl	67	
EDITORIALS			
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Blind spot (C)	Ja	76	
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Engineering for pure water	Ja	17	
Executive suite	Ap	91	
For the updog (C)	F	81	
Honor concerto (C)	F	80	
Importance of dissent (C)	O	76	
Man with a purpose	Ja	17	
Pay check, that	Jl	13	
Protester critic (C)	F	81	
Real battleground, the	O	19	
Scope	My	17	
Something to lose	F	19	
Unguarded moment	S 29; (C)	N	80
Wider not higher education (C)	Ap	137	
EDMA, CURTIS H.			
Obituary	Ap	161	
EDMONSON, GLENN V.			
Elected ASME fellow	Jl	113	
EDUCATION. <i>See also SCHOLARSHIPS AND FELLOWSHIPS</i>			
Commentary: education, etc. (C)	Je	82	
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Protester critic (C)	F	81	
Research and education: conflict or harmony?			
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Research education (C)	Ag	60	
Wanted: White House fellows; qualified ASME members urged to participate	N	89	
Wider not higher education (C)	Ap	137	
EDWARDS, HARRY D.			
Receives ASME 50-year pin	O	110	
EDWARDS, R. H.			
Radiation from absorbing-scattering conical dispersion with nonuniform density (A)	N	77	
EDWARDS, WILLIAM W.			
Receives ASME 55-year certificate	Ap	157	
EBRECHT, ADOLPH			
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EHRENFRIED, A. D.			
Level measurement of dry solids with new extended resistive sensor (A)	D	64	
EHREICH, F.			
Aeroelastic instability in labyrinth seals (A)	Je	77	
EICHENBERGER, H. P.			
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Education and research in industry	My	21	
EICHHORN, R.			
Performance and potential of perforated plates as a heat transfer surface (A) Je		76	

EINSTEIN, SOL			
Receives ASME 55-year certificate	Ap	157	
ETIMAN, D. A.			
Parametric relationship between fatigue life, cyclic stress, and crack length in flat panels and cylinders, a (A)	Mr		
ELASTICITY			
Convergence of the finite element method in the theory of elasticity (A)	Ag		
Elastic contact of a strip pressed between two cylinders (A)	S		
Elastic stability of circular tubes of circumferentially variable thickness under external pressure (A)	D		
Mechanical and thermodynamic considerations of an assemblage of homogeneous elastic-plastic states (A)	S		
Method for solution of lubrication problems with temperature and elasticity effects: application to sector, tilting-pad bearings (A)	D		
ELASTOHYDRODYNAMICS			
Application of elastohydrodynamic lubrication theory to individual asperity-asperity collisions, the (A)	D		
ELASTOMERS			
Behavior of viscoelastic media under small sinusoidal oscillations superposed on finite strain (A)	Ag		
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ELASTOMER INDUSTRY			
Beauty of it, the (Ed)			
EUITFE (Electric Utility Industry Task Force on Environment)	D		
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ELECTRICITY			
Electricity from coal: the cycles			
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Investigations into the detergent action of additives for motor oils in the presence of an electric field (A)	Ja		
ELECTROLYTES			
Organic and molten salt electrolytes (A)	Je		
ELECTROMAGNETICS			
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Retires after 37 years with engineering division of Kearney & Trecker Corp., West Allis, Wis.	Ja	121		
FLAPS				
Jet-flap in centrifugal turbomachines, the (A)	Je	80		
FLEISHMAN, S. L.				
Manufacture and testing of hollow forgings with explosion-bonded clad bores (A)	D	68		
Metallurgical properties of ASTM A 508 Class 2 low alloy steel forgings (A)	D	69		
FLEMING, D. P.				
Experimental stability studies of the herringbone-grooved gas-lubricated journal bearing (A)	S	75		
FLEXURE				
Stress concentration factors in shouldered shafts subjected to combinations of flex and torsion (A)	Ja	66		
FLINT, THOMAS				
Promoted to director of Corporate Research, Development, and Engineering of Foxboro Co., Foxboro, Mass.	Ag	99		
FLORENCE, A. L.				
Dynamic plastic buckling of cylindrical shells in sustained axial compressive flow (A)	S	80		
FLORIOM, P. J., JR.				
Development of a periodic flow in a rigid tube (A)	Ag	52		
FLOW				
Analytical study of separated flow about circular cylinders, an (A)	Jl	73		
Asymptotic solution for laminar flow of an incompressible fluid between rotating disks, an (A)	Ag	56		
Calculation of fluid motion in axial flow turbomachines (A)	Je	77		
Computerized method of characteristics calculations for unsteady pneumatic line flows (A)	Ag	52		
Development of a periodic flow in a rigid tube (A)	Ag	53		
Evaluation of quasi-steady approximation for viscous effects in unsteady liquid pipe flow (A)	Ag	76		
Experiments on two-component stratified flow in a horizontal duct (A)	N	53		
Flow between two parallel circular disks, one of which is subject to a normal sinusoidal oscillation, the (A)	S	76		
Flume studies substantiating detailed, time-dependent phenomena of detached flows (A)	Ag	54		
Influence of sidewall friction on the flow in multistage axial-flow turbomachines (A)	Ag	55		
Laminar flow between a rotating disk and a parallel stationary wall with and without radial inflow (A)	Ag	56		
Linear inward flow of an incompressible fluid between rotating disks, with full peripheral admission (A)	Ag	52		
Nonlinear interaction of two lifting bodies in arbitrary unsteady motion (A)	Ag	54		
Nonsteady flow in the turbine, recent work and thinking (A)	Ag	55		
On the calculation of unsteady nonlinear three-dimensional supersonic flow past wings (A)	Ag	52		
Potential vortex flow adjacent to a stationary surface (A)	Ag	53		
Reversed flow in face seals (A)	D	57		
Stability of slip flows in parallel heated passages (A)	N	55		
Study of incompressible turbulent boundary layers in channel flow, a (A)	Jl	73		
Suction scheme applied to flow through sudden enlargement, a (A)	Jl	73		
Turbulent wake of a body of revolution, the (A)	Jl	73		
Two models for cavity flow—a theoretical summary and application (A)	Ag	55		
Unsteady rotating flow in a cylinder with a free surface (A)	Jl	73		
Velocity distributions in two-phase vortex flow (A)	Jl	73		
FLOW MEASURING				
Cryogenic flow measurement for custody transfer (A)	Ja	67		
FLOW PATTERNS				
Axial cascade technology and application to flow path designs: part I—axial cascade technology (A); part II—application of data to flow path designs (A)	My	68		
Distribution and stability of flow in a rotating channel, the (A)	My	68		
FLOWER, ARTHUR J.				
Obituary	Je	119		
FLOWER, R. A.				
Laser instruments for measurements	O 27; (A)	68		
FLOWMETERS				
Automated microsyringe	Jl	48		
FLOYD, JAMES K.				
Controlling process-plant noise	O 23; (A)	70		
FLUE GASES				
Coal and sulfur dioxide pollution (A)	My	72		
FLUORIC PROPORTIONAL AMPLIFIERS				
Experience	O 34; (C) (D) (AC)	82		
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FLUID DUST SEPARATOR				
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FLUID AMPLIFIERS				
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Development of a three-mode control using high-gain fluid amplifiers (A)	My	76		
Dynamic analysis of fluorine proportional amplifiers (A)	S	82		
Experimental investigation of flow characteristics in a supersonic bistable amplifier (A)	Jl	72		
Experimental study of switching in a bistable fluid amplifier (A)	My	76		
Fluidic power amplifiers for valving systems (A)	Je	69		
Scaling study of fluid amplifier elements	Ja	55		
Vent effects on the response of a proportional fluid amplifier (A)	Ap	127		
FLUID MECHANICS				
BR (by J. Kestin) of "Low Reynolds Number Hydrodynamics (With Special Applications to Particulate Media)" by J. Happel and H. Brenner	Ap	138		
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Accelerometer for fluidic control systems, an (A)	My	76		
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Development of fluidic controls for advanced integrated propulsion systems (A)	Je	79		
Diaphragm valve fluidics (A)	My	76		
Diaphragm-actuated fluidic interface devices (A)	Ja	71		
Dynamics of fluid-suspended ground transport vehicles, the: a first-order analysis (A)	Ja	68		
Fluidic control of a J79 turbojet engine (A)	My	77		
Fluidic modules	Ja	53		
Fluidic power amplifiers for valving systems (A)	Je	69		
Fluidic processing of alternating pressure signals (A)	My	76		
Fluidic technique for measuring the average temperature in a gas turbine exhaust duct, a (A)	Ja	75		
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High-speed computing techniques applicable to fluidic digital computation (A)	Ag	55		
Hydraulic fluidic stability augmentation system for helicopters, a (A)	My	77		
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Analytical and experimental study of air-lift pump performance, an (A)	Ap	126		
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Asymptotic solution for laminar flow of an incompressible fluid between rotating disks, an (A)	Ag	56		
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Behavior of free laminar jets leaving Poiseuille tubes (A)	Jl	72		
Calculation of fluid motion in axial flow turbomachines (A)	Je	77		
Column separation accompanying liquid transients in pipes (A)	Ap	128		
Confined-jet amplifier (A)	Ap	128		
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Design considerations of diaphragm circuit elements (A)	My	76		
Deterioration in heat transfer to fluids at supercritical pressure and high heat fluxes (A)	O	67		
Dynamic behavior of a hydrogenerating set, the (A)	My	76		
Dynamic response of a suspended hydrophone to wave and flow effects (A)	Jl	72		
Editorial summary of discussions of Ronald E. Pasamore's paper, "The Economics of Hydraulic Turbine Selection" (A)	My	76		
Effect of a time-dependent stenosis on flow through a tube (A)	F	71		
Effect of parallel shear flows on cylindrical pressure probes (A)	Ap	126		
Estimating the efficiency of prototype pumps from model tests (A)	Ap	127		
Evaluation of a fluorine angular-rate sensor with high sensitivity (A)	My	76		
Evaluation of PR-143—a new candidate for use as a high-temperature hydraulic fluid (A)	Ap	124		
Experimental investigation of flow characteristics in a supersonic bistable amplifier (A)	Jl	72		
Experimental program to provide two-dimensional cascade data applicable to pump design, an (A)	Ap	127		
Experimental study of the turbulent-flow boundary-layer development in smooth annuli, an (A)	Ap	128		
Extension of the Woods theory for unsteady cavity flows, an (A)	Ap	127		
Film cooling with injection through holes: adiabatic wall temperatures downstream of a circular hole (A)	My	71		
Flow oscillation in the laminar radial flow of incompressible fluids between disks (A)	Ap	128		
Fluorine pressure regulator, a (A)	My	77		
Fluid properties in high-temperature fields by hot-wire anemometry techniques	F	72		
Forces on a sphere moving steadily along a circular path in a viscous fluid (A)	S	79		
Frequency-dependent friction in transient pipe flow (A)	Ap	128		
Gas content, size, temperature, and velocity effects on cavitation inception in a Venturi (A)	Ap	126		
High-speed position encoder and fluidic count register (A)	Ap	128		
Homogeneous mixture of fluids	F	53		
Hydrodynamics of stillwells (A)	Jl	73		
Hydroelastic forces on bluff cylinders (A)	Jl	71		
Interaction of a ring-reinforced shell and a fluid medium (A)	Ag	56		
Investigation of axial turbine stage (A)	Jl	72		
Investigation of pulsations in the boiler feed system of a central power station, an (A)	Jl	72		
Isokinetic sampling probe technique applied to two-component, two-phase flow (A)	My	76		
Linear inward flow of an incompressible fluid between rotating disks, with full peripheral admission (A)	Ag	56		
Measurement of cavitation intensity in ultrasonic cleaners, and a suggestion for a cavitation intensity standard, the (A)	Ap	128		
Mechanical potential drops at a fluid branch (A)	Ap	127		
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Photographic study of the three-dimensional flow in a radial compressor, a (A)	My	69	Influence of sidewall friction on the flow in multistage axial-flow turbomachines (A)	Ag	55	Secondary flow effects in a bounded rectangular jet (A)	Jl	73
Pumps for fluid power:			Interaction of a sloshing liquid with elastic containers (A)	Ag	52	FOSTER, ALAN M.		
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Part 3—for extreme environments	N	43	Laminar flow between a rotating disk and a parallel stationary wall with and without radial inflow (A)	Ag	52	Re steam tables (C) (D)	My	80
Quasi two-dimensional flows through a cascade (A)	Ap	128	Nonlinear interaction of two lifting bodies in arbitrary unsteady motion (A)	Ag	52	FOSTER, D. J.		
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Rough surface effects on cavitation inception (A)	Jl	71	Recent research in hypervelocity impact rock disintegration (A)	Ag	52	FOULING		
Secondary flow effects in a bounded rectangular jet (A)	Jl	73	Rock tunneling with high-speed water jets utilizing cavitation damage (A)	S	On-steam cleaning of heat-exchanger tubes —fouling prevented by regular brushing (A)	D	68	
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Suction scheme applied to flow through sudden enlargement, a (A)	Jl	73	Unsteady lift forces generated by vortex shedding about a large, stationary, and oscillating cylinder at high Reynolds numbers (A)	Ag	52	Characteristic-function approach to the thermal performance of a multistream counterflow heat exchanger with and without the effect of longitudinal heat conduction, a (A)	Mr	74
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Turbulent wake of a body of revolution, the (A)	Jl	73	Experience with electrostatic fly-ash collection equipment serving steam-electric generating plants (A)	My	54	FOX, RUDOLPH H.		
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Unsteady rotating flow in a cylinder with a free surface (A)	Jl	73	Receives ASME 55-year certificate	Ap	157			
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Vent effects on the response of a proportional fluid amplifier (A)	Ap	127	Application of fracture mechanics to anisotropic plates (A)	Ap	134			
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Von Karman hydraulic vortexes cause stay vane cracking on propeller turbines at the Little Long generating station of Ontario Hydro (A)	My	77	Criterion for ductile fracture by the growth of holes, a (A)	Ag	56			
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FLUIDS ENGINEERING			Rosette, star, tensile fracture, the (A)	F	68			
Blade oscillations in one-stage axial turbomachinery (A)	Ag	54	Slipper boots (C)	F	80			
Bubble trajectories and equilibrium levels in vibrated liquid columns (A)	Ag	55	Split, layered, cut-and-cone tensile fracture, the (A)	F	70			
Computerized method of characteristics calculations for unsteady pneumatic line flows (A)	Ag	52	FRANCIS, G. A.					
Development of a periodic flow in a rigid tube (A)	Ag	52	Design of equipment for challenging environments (A)	Je	72			
Dynamic analysis of fluoric proportional amplifiers (A)	S	82	FRANCIS, T. M.					
Dynamics of a heated free jet of variable viscosity liquid at low Reynolds numbers, the (A)	Ag	52	Receives ASME certificate of appreciation	D	107			
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Evaluation of quasi-steady approximation for viscous effects in unsteady liquid pipe flow (A)	Ag	53	Cost effectiveness as applied to management systems (A)	Mr	77			
Fluctuating lift forces on airfoils moving through transverse and chordwise gusts (A)	Ag	55	FRANZ, ANSELM					
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FREY, K. P. H.	
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Contact conformity effects on spinning torque and friction (A)	D
Contact region of a hard ball rolling on a viscoelastic plate (A)	Ja
Detection of mechanical component malfunction caused by friction and wear (A)	Je
Experimental study of the relationship between oxygen partial pressure and friction for 52100 steel, an (A)	Ap
Frequency-dependent friction in transient pipe flow (A)	Ap
Influence of sidewall friction on the flow in multistage axial-flow turbomachines (A)	Ag
Offset rectangular plate-fin surfaces—heat transfer and flow friction characteristics (A)	Je
On the mechanism of contact between metal surfaces: part 2—the real area and the number of the contact points (A)	Ja
FRIEDRICH, ALLAN F.	
Becomes vice-president of Region VI	N
FRIEDLAND, A. L.	
Incinerators and the public	D
FRIEDLI, F. L.	
Compressor load control systems (A)	N
FRIEDMAN, FERDINAND J.	
Receives ASME 55-year certificate	Ap
FRIEDMAN, JOEL	
Appointed to sales department of American Hydrotherm Corp., New York, N. Y.	Je
FRIEDMAN, M.	
Viscous flow in a pipe with absorbing walls (A)	Ap
FRIEND, WALTER F.	
Receives ASME 55-year certificate	Ap
FRIITZ, T. T.	
Proposed ASTM specifications for gas-turbine fuel oils (A)	N
FROEHLICH, K. F.	
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FRONT, J. V.	
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FROST, WALTER	
Analytical solution for the transient temperature of a heated surface during microlayer evaporation, an (A)	Ja
B. G. Galerkin method for heat-transfer solution in longitudinal convection fins of arbitrary shape with nonuniform surface film coefficients (A)	O
FYELING, GLENN, R.	
BR of "Excellence in Engineering" by William H. Roadstrum	S
Improving technical writing	
BR of "Writing for Technical and Professional Journals" by John H. Mitchell	D
BR of "Technical Correspondence: A Handbook and Reference Source for the Technical Professional" by Herman M. Weisman	D
Pulverized coal: a challenge	
BR of "Combustion of Pulverised Coal" by M. A. Field, D. W. Gill, B. B. Morgan, and P. G. W. Hawskley	Mr
What belongs in a handbook?	
BR of "Handbook of Engineering Sciences: Vol 1—The Basic Sciences; Vol. II—The Applied Sciences" edited by James H. Potter	Je
FUEL CELLS	
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Fuel cells for central power generation	Mr
Gasoline economy study	F
Hydromechanical fuel control for portable gas turbine generator sets (A)	My
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Peat production	F
Proposed ASTM specifications for gas-turbine fuel oils (A)	N
Proposed ASME performance test code for nuclear reactor fuel (A)	Ja
Some operating experiences with gas turbines approaching the maximum limits of the proposed ASTM No. 3 fuel specification (A)	My
Turboprop engine advanced adaptive fuel control with a high contamination tolerance, a (A)	Je
Two years' experience of a gas turbine firing residual fuel (A)	Je
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Collection of fly ash in a self-agglomerating fluidized-bed coal burner (A)	F
Elimination of combustion-driven oscillations in a large air heater (A)	F
Measuring abrasiveness of solid fuels and other materials by a radiochemical method (A)	F
FUJIE, KUNIO	
On the slip factor of centrifugal and mixed-flow impellers (A)	F
FULCHER, C. W. G.	
Analysis of the plastic flow of rock under a lubricated punch (A)	Ap
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FULLER, D. D.	
Review of the state-of-the-art for the design of self-acting gas-lubricated bearings, a (A)	S
FULMER, B. A.	
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FULS, G. MARTIN	
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FURCHGOTT, ARTHUR C.	
Appointed project director for Eastern Airlines, Miami, Fla.	Je
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GALLAGHER, J. J.	
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GALLUP, ROCKWELL L.	
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GALVIN, G. D.	
Developments in supercleaning and boundary lubrication for gas-bearing gyros related to surface phenomena (A)	S
GARCIA, D. J.	
Current-induced bending moments in laying offshore pipeline (A)	D
GARDNER, KARL A.	
Named a senior consultant at Liquid Metal Engineering Center operated at Canoga Park, Calif., for U. S. Atomic Energy Commission by North American Rockwell Corporation's Atomics International Division	D
GARFINKEL, ROBERT D.	
Biomechanics speculations (C)	Ap
GARGIULO, E. P., JR.	
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GARIN, P. V.	
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GARMEZ, ROBERT H.	
Appointed vice-president of engineering, Automotive Division, Blackstone Corp., Jamestown, N. Y.	O
GARNER, PHILLIP B.	
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GARRETSON, B. B.	
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GARRETT, R. L.	
Vapor-liquid separation at supersonic velocities (A)	D
GARRISON, MAURICE R.	
Named vice-president for engineering, a new position, for Basco and Dustex, division of American Precision Industries Inc., Buffalo, N. Y.	Ag
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Air pollution traced by gas	Jl
Bulk liquid helium distribution system—some design considerations (A)	Ja
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Cryogenic customer stations (A)	Ja
Cryogenic pumps for gas pipeline standby systems (A)	Ja
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Effects of surface cooling and heating on structure of low-speed, laminar boundary-layer gas flows with constant free-stream velocity (A)	O
"Gasbuggy" analyzed	O
Heat transfer and laminar boundary-layer distributions in an internal subsonic gas stream at temperatures up to 12,900 deg R (A)	O
High-temperature thermal conductivity of rare gases and gas mixtures (A)	Ja
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Some characteristics of a full journal bearing lubricated with electro-conducting gases (A)	N
Theory for finite-width high-speed self-acting gas-lubricated slider (and partial-arc) bearings (A)	N
Thermal radiation effects on the laminar free convection boundary layer of an absorbing gas (A)	N
Vapor-liquid separation at supersonic velocities (A)	D
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GASTON, ERNEST C.	
Retires as a vice-president and director of Southern Company and as chairman of its service affiliate, Southern Services, Inc., after more than 44 years	F
GATES, D. M.	
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GAVIN, RICHARD I.	
Admitted to partnership of Sargent & Lundy, Chicago	Ap
GAY, B.	
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GAYLORD, LAURENCE T.	
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Determination of metering pin profile for prescribed impact loading of airplane landing gear (A)	D
Effects of lubricants, metals, temperature, and atmospheric environments on gear load-carrying capacity (A)	Ja
Gear couplings (A)	Ja
Kinematic space requirement and efficiency of coupled planetary gear systems (A)	N
Kinematics of contacting surfaces, the (A)	Ja
Lubrication of aircraft instrument bearings and gears, the (A)	Ap
Minimum inertia gear train design (A)	Mr
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Helium transport properties and the Lennard-Jones 6-9 potential (A)	Ja	66	Obituary	N 110
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HERMAN, A. S., JR.			Elected ASME fellow	My 116
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Approximate theory governing symmetric motions of elastic rods of rectangular or square cross section, an (A)	S	78	Elected ASME fellow	O 110; N 108
HERTY, FRANK B.			General properties of yield-point load surfaces (A)	Ap 132
Elected ASME fellow	Ag	100	Limit analysis and yield-line theory (A)	S 78
HERWALD, S. W.			HODGSON, J. W.	
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HESKETADE, G.			Axially symmetric creep buckling of circular cylindrical shells in axial compression (A)	S 79
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HEYN, W. O.			Gas turbine for total energy	Ap 92
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		Named assistant to vice-president, technical operations, North American Rockwell Corp., Long Beach, Calif.; will continue as manager of company's Miami, Fla., office	F 111	
		HOLMAN, ROGER A.		
		Appointed product development manager of Fluidic Products Department of Corning Glass Works, Corning, N. Y.Ag 99	99	
		HOLMES, A. B.		
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		HOLMSTROM, ANDREW B.		
		Receives honorary degree at Worcester Polytechnic Institute, Worcester, Mass.Ag 99	99	
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		HOWARD, J. H. G.		
		Performance and flow regimes for annular diffusers (A)	Ap 128	
		HOWARTH, ELBERT S.		
		Elected ASME fellow	S 122	
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Rough surface effects on cavitation inception (A)	Jl	Executive suite (Ed)	Ap	91
IRON		Pay check, that (Ed)	Jl	13
Heat-treatment of iron castings, the (A) F		Real battleground, the (Ed)	O	19
Optimum application of austenitic nodular iron for gas turbine components, an (A)	Je	Scope (Ed)	My	17
IRON INDUSTRY		Something to lose (Ed)	F	19
Operation up-date (A)	F	Unguarded moment (Ed)	S	29
IRADIATION		JACOB'S MEMORIAL AWARD, MAX		
MPC solicits data	OF	105	
IRWIN, DONALD E.		JAMAL, VICTOR J.		
Appointed chairman of Engineering Manpower Commission of Engineers Joint Council, New York, N. Y.Jl		Free rolling rolamate (C)	S	84
Power engineering education: Part 1—scope of power engineering	F	JAMES, THOMAS M.		
ISADA, N. M.	85	Obituary	Ap	161
Ride response of a pneumatic-tired rapid-transit vehicle riding on a cambered-beam roadbed, an analysis of the (A)	Ja	JAMISON, C. E.		
ISEMAN, J. M.	69	Viscoelastic properties of soft tissue by discrete model characterization (A)	F	71
Application of fluidics to low power logic circuits, the (A)	Jl	JANDRSEVITS, PETER		
ITUANG, N. C.	111	Obituary	Ja	127
Optimal design of an elastic column of thin-walled cross section (A)	S	JANSEN, W.		
IVANOV, B.	73	Application of end-wall boundary-layer effects in the performance analysis of axial compressors, the (A)	F	77
Pressure of flow material on rigid walls of deep cylindrical bins (A)	D	Rapid method for predicting the off-design performance of radial-inflow turbines, a (A)	F	76
IWAN, W. D.		JASANY, FRANK A.		
Steady-state dynamic response of a limited slip system (A)	Ag	Appointed manager of contract administrators of Bailey Meter Co., Wickliffe, Ohio	N	107
IWATA, K.		JASINSKI, R.		
Temperature responses and experimental errors for multitooth milling cutters (A)	Ja	Organic and molten salt electrolytes (A)	Je	68
IZUMI, S.	63	JENKINS, HAROLD B.		
Matching of exhaust turbochargers to two-cycle diesel engines (A)	Jl	Receives ASME 55-year certificate	Ap	157
J	67	JENKS, STEPHEN M.		
JACK, ROBERT L., JR.		Elected to National Academy of Engineering	Je	113
Elected ASME fellow	D	JENNINGS, IRVING C.		
JACKMAN, JOHN T.	108	Receives ASME 60-year certificate	Ap	157
Obituary	Mr	JENNINGS, L. C.		
JACKMAN, L. A.	113	Hydraulic starting of marine gas turbine engines (A)	Je	77
Dynamic strain aging and the Charpy specimen behavior of annealed 4340 steel (A)	My	JENSEN, C. T.		
SPLIT, layered, cup-and-cone tensile fracture, the (A)	F	Appointed senior research and development engineer at CF & I, Pueblo, Colo.	Jl	111
JACKSON, ARTHUR C.	74	JENSEN, D. F.		
Receives ASME 65-year certificate	Ap	Diaphragm-actuated fluidic interface devices (A)	Je	71
JACKSON, C.	157	JENSEN, JØRGEN P.		
Shaft alignment using proximity transducers (A)	N	Honored by U. S. for contribution to Hawaii's state plan for emergency management of resources	O	109
JACKSON, D. R.	75	JENSEN, P. W.		
Evaluating wear of cylinders and piston rings by quick spectrographic sampling method (A)	Jl	Kinematic space requirement and efficiency of coupled planetary gear systems (A)	N	69
JACKSON, HENRY W.	65	JETS		
Receives ASME 55-year certificate	Ap	Approximate analysis of three two-dimensional interaction jets, an (A)	My	76
JACKSON, MORTON	157	Behavior of free laminar jets leaving Poiseuille tubes (A)	Jl	72
Named manager of industrial engineering for Dollinger Corp., Rochester, N. Y. Mr		Confined-jet amplifier (A)	Ap	128
JACKSON, T. W.	100	Dynamics of a heated free jet of variable viscosity liquid at low Reynolds numbers, the (A)	Ag	52
Transient film boiling of water on a horizontal wire (A)	O	Effect of slot height and slot-turbulence intensity on the effectiveness of the uniform density, two-dimensional wall jet, the (A)	N	77
JACOBS, J. D.	67	Flying "armchair"	Jl	47
Measurement of temperatures associated with bubbles in subcooled pool boiling (A)	N	Flying platform	D	56
JOFRE, R. J.	77	Jet impact and cavitation damage (A)	Ag	55
Free-convection heat transfer to a rough plate (A)	Mr	Jets, props and air cushions—propulsion technology and surface effect ships (A)	Je	79
JONSSON, J. ERIK		Plane, turbulent compressible wall jet with and without parallel free stream (A)	S	82
Receives Gant medal of 1968	N	Rock tunneling with high-speed water jets utilizing cavitation damage (A)	S	82
JONSSON, J. ERIK		Secondary flow effects in a bounded rectangular jet (A)	Jl	73
Receives Gant medal of 1968	N	Waves at a flexibly bonded interface (A)	Ap	134
JONES, N.		JONES, N.		
Finite deflections of a rigid-viscoplastic strain-hardening annular plate loaded impulsively (A)	Ag	Finite deflections of a rigid-viscoplastic strain-hardening annular plate loaded impulsively (A)	Ag	56
JONES, R. D.		Impulsive loading of a simply supported circular rigid plastic plate (A)	Ap	133
Effect of design variation on service stresses in railroad wheels (A)	My	JONES, R.		
JONES, ROGER F.		Design of pressure hulls for small submersibles (A)	F	66
Appointed to newly created position of market development manager, LNP Corp., Malvern, Pa.Mr		JONES, R. D.		
JONSSON, J. ERIK		Effect of design variation on service stresses in railroad wheels (A)	My	73
Receives Gant medal of 1968	N	JONES, ROGER F.		
Receives Gant medal of 1968	N	Appointed to newly created position of market development manager, LNP Corp., Malvern, Pa.Mr		109

JORDAN, B. W., JR.	
Representation of cross product in matrix form, with applications to kinematics (A)	D
JORDAN, RICHARD C.	
Research and education: conflict or harmony?	
Research: growth and future impact	My
JORDAN, WILLIAM A.	
Receives ASME 55-year certificate	Ap
JORGENSEN, S. M.	
Closure and shell joints for large high-pressure cylinders (A)	N
JOUBERT, P. N.	
Influence of vortex generators on the drag and heat transfer from a circular cylinder normal to an airstream, the (A)	N
JOYCE, T. J.	
Kilowatt-hours from LNG—the potential for using liquefied natural gas for power generation (A)	N
JUNGE, R. M.	
Proposed ASTM specifications for gas-turbine fuel oils (A)	N
JUPITER, SAUL R.	
Appointed vice-president of engineering and sales for Aircraft Porous Media, Inc., subsidiary of Pall Corp, Glen Cove, N. Y.	
JURAN, J. M.	
For the upperdog (C)	F
JURECHKO, JOHN	
Obituary	Je

K

KACKER, S. C.	
Effect of slot height and slot-turbulence intensity on the effectiveness of the uniform density, two-dimensional wall jet, the (A)	N
KACPRZYNSKI, J. J.	
On the calculation of unsteady nonlinear three-dimensional flow past wings (A)	Ag
KAHN, M. E.	
On a class of two-degree-of-freedom oscillations (A)	S
KAISER, E. R.	
Need for a test code for large incinerators, the (A)	Ja
KALIKA, P. W.	
Effects of variations in municipal refuse on some incinerator design parameters, the (A)	Ja
KAMAL, M. M.	
High-pressure clearance seal, a (A)	Mr
KAMIYAMA, S.	
Magnetohydrodynamic journal bearing (report 1) (A)	D
KANE, T. R.	
On a class of two-degree-of-freedom oscillations (A)	S
KAO, T. Y.	
Evaluation of quasi-steady approximation for viscous effects in unsteady liquid pipe flow (A)	Ag
KARDOS, G.	
Design criteria for generalized high strain (A)	F
KARRY, WILLIAM G.	
Elected president of North Shore Chapter of Illinois Society of Professional Engineers	Ag
KASPER, R. J.	
Temperature distribution for induction through-heating of magnetic materials to forging temperature (A)	O
KASSANDER, ARNO R.	
Receives ASME 55-year certificate	Ap
KASEBOHM, WALTER	
Elected ASME fellow	My
KATES, EDGAR J.	
Obituary	N
KATZ, DONALD L.	
Elected to National Academy of Engineering	Je
1967 recipient of Warren K. Lewis award of AIChE	F
KATZ, S.	
Mechanical potential drops at a fluid branch (A)	Ap
KAUFMAN, R. E.	
Bicycloidal crank—a new four-link mechanism (A)	D
KAUFMAN, SAMUEL	
Gear couplings (A)	Ja

Named operational manager of Sier-Bath Gear Company's Coupling Division, North Bergen, N. J.	Je	113	
KAUFMAN, W.			
Fluoroc pressure regulator, a (A)	My	77	
KAYAN, CARL F.			
Re steam tables (C) (D)	My	80	
KEAR, GEORGE H.			
Obituary	Jl	116	
KEATING, W. H.			
Design studies of an opposed-hemisphere gyro spin-axis gas bearing (A)	S	76	
KECK, M. F.			
Turboprop engine advanced adaptive fuel control with a high contamination tolerance, a (A)	Je	79	
KEENAN, JOSEPH H.			
Re steam tables (C) (D)	My	80	
KEIFF, SIDNEY			
Obituary	Mr	113	
KELLER, HERBERT W.			
Design of a shipping container for the new generation of nuclear power reaction fuel assemblies (A)	Ja	70	
KELLER, R. B.			
Experimental study of switching in a bistable fluid amplifier (A)	My	76	
KELLEY, L. R.			
Fluidic technique for measuring the average temperature in a gas turbine exhaust duct, a (A)	Je	75	
KELLY, DAVID L.			
Joins Center for Naval Analyses (CNA) of University of Rochester; is assigned to Ship Design, Construction, and Cost Division of Naval Warfare Analysis Group			
KELLY, H. R.			
Extension of the Woods theory for unsteady cavity flows, an (A)	Ap	127	
KELLY, HOWARD A.			
Obituary	F	113	
KENDALL, E. G.			
Criteria for fastener system design (A)	Mr	70	
KENNOY, JOHN S., JR.			
Research education (C)	Ag	60	
Transposed (C)	Ag	61	
KENNY, D. P.			
Novel low cost diffuser for high performance centrifugal compressors, a (A)	My	71	
KENNY, ROBERT J.			
Appointed engineering manager of air impeller division, Torrington Manufacturing Co., Torrington, Conn.	Ja	121	
KERKLO, PHILIP			
Development of high-pressure high-flow turbocompressor for tomorrow's high-output diesel and spark-fired engines (A)	Jl	67	
KERR, S. LOGAN			
Obituary	Ap 161; (errata)	Jl	116
KESHAVA, S. P.			
Moving load on a plate resting on an elastic half-space (A)	Ap	132	
KESSEL, P. G.			
Application of the positive thermoelastic coefficients of nickel-iron alloys to wide-temperature-range Belleville springs (A)	Ja	68	
KESSELING, KENNETH A.			
Obituary	N	110	
KESTIN, J.			
Hydrodynamics through a magnifying glass			
BR of "Low Reynolds Number Hydrodynamics (With Special Applications to Particulate Media)" by J. Happel and H. Brenner	Ap	138	
KETCHUM, GARDNER M.			
Elected ASME fellow	D	108	
KETOLA, H. N.			
Pressure, frictional resistance, and flow characteristics of the partially wetted rotating disk (A)	Mr	70	
KETTERING AWARD, CHARLES			
	F	105	
KEUFFEL, CARL W.			
Receives ASME 55-year certificate	Ap	157	
KEUSENHOFF, J.			
Influence of sidewall friction on the flow in multistage axial-flow turbomachines (A)	Ag	55	
KEYES, J. J., JR.			
Study of wall-turbulence phenomena using hot-film sensors, a (A)	Mr	75	
KEYES, JOHN H., SR.			
Elected ASME fellow	My	116	
KIBBEY, D. R.			
Non-chatter vibration in machining (A)	Ap	130	
KIDD, G. J., JR.			
Potential vortex flow adjacent to a stationary surface (A)	Ag	57	
KIEFER, PAUL W.			
Obituary	N	110	
KIELING, W. C.			
Des' of coupler-driven dwell mechanisms using computer-developed synthesis curves (A)	N	69	
KIELY, JOHN R.			
Elected ASME fellow	Ja	123	
KIENHOLZ, DAVID A.			
Receives 1967-68 grant from Sylvia W. Farney scholarship fund of ASME Woman's Auxiliary	Ja	116	
KIERNAN, T.			
Design of pressure hulls for small submersibles (A)	F	66	
KILBURN, R.			
Reducing wear in an electromagnetic clutch (A)	My	78	
KIMEL, WILLIAM R.			
Appointed dean of College of Engineering, University of Missouri at Columbia	Ag	99	
KINEMATICS. <i>See also</i> MECHANISMS			
Displacement and velocity kinematic synthesis (A)	F	72	
General spatial motion and deformable octahedron mechanism (A)	N	68	
Kinematic and dynamic analyses of rotary epicyclic engine (A)	D	73	
Kinematic design using computer graphics (A)	N	67	
Kinematic space requirement and efficiency of coupled planetary gear systems (A)	N	69	
Kinematics and dynamics of bulk solids during discharge from orifices (A)	D	62	
Kinematics of contacting surfaces, the (A)			
.....	Ja	68	
On a general method of spatial kinematic synthesis by means of a stretch-rotation tensor (A)	N	69	
Principles of a general quaternion-operator method of spatial kinematic synthesis (A)	S	80	
Representation of cross product in matrix form, with applications to kinematics (A)	D	72	
Second-order kinematic analysis of spatial R-S-T linkages (A)	N	67	
Three-dimensional kinematic synthesis (A)	Ja	68	
Unified theory for the finitely and infinitesimally separated position problems of kinematic synthesis, a (A)	D	73	
KINETICS			
Kineticstatic synthesis of flexible link mechanisms (A)	N	67	
KING, GEORGE L. H.			
Receives ISA's Philip T. Sprague award	N	107	
KING, J. A.			
Testing pumps in air (A)	Ap	126	
KING, RENO C., JR.			
Elected ASME fellow	Ap	158	
KINGSBURY, J. E.			
Nonstructural materials for aerospace Ag 32; (A)	Mr	70	
KINSMAN, GEORGE			
Elected ASME fellow	D	108	
KIRCHNER, M. E.			
Multirotor VTOL aircraft	S 34; (A)	Ja	69
KIRK, GERALD A.			
Named quality control manager (newly created post), Parker-Kalon Corp., Clifton, N. J.	Ja	121	
KIRKHAM, THOMAS A.			
Engineering for pure water: part 3—electrodialysis	Mr	47	
KIRMSE, P. G.			
Minimum weight design of beams with inequality constraints on stress and deflection (A)	Ap	131	
KISS, I. S.			
Type determination of skew four-bar mechanisms (A)	N	66	
KITE, HENRY J.			
Obituary	N	113	
KITTREDGE, C. P.			
Estimating the efficiency of prototype pumps from model tests (A)	Ap	127	
KJOS, DONALD M.			
Obituary	Ag	103	
KLAUBER, LAURENCE M.			
Obituary	Ag	103	

KLAUS, E. E.			
Measurement and prediction of viscosity-pressure characteristics of liquids (A) ..D	66		
KLEIN, GEORGE F.			
Obituary	N	113	
KLIMENT, WILLIAM P.			
Obituary	N	111	
KLINE, STEPHEN J.			
Elected ASME fellow	My	116	
Receives George Stephenson prize from England's Institution of Mechanical Engineers	Je	113	
KLITIN, O. A.			
Power engineering education, part 2—communication: industry to student	F	38	
KLOPFER, G.			
Oblique flow headers for heat exchangers (A)	My	68	
KLOSE, KARL			
Appointed corporate equipment development engineer for Cooper Tire & Rubber Co., Findlay, Ohio	Mr	109	
KLOSNER, J. M.			
Interaction of a ring-reinforced shell and a fluid medium (A)	Ag	56	
KLOTZ, HARRY J.			
Receives ASME 55-year certificate	Ap	157	
KNAPP, PETER R.			
Obituary	My	119	
KNIGHT, EARL R.			
Obituary	JI	116	
KNIGHT, LEE D.			
ASME design engineering contest award, 1966-67	Ja	106	
KNIGHTON, GEORGE W.			
Critique of in-place annealing of SM-1A nuclear reactor vessel (A)	My	74	
KNIPE, EDWARD			
More on metric (C)	Ag	61	
KNOEDLER, E. L.			
Some factors controlling hydrogen damage in carbon steel (A)	N	70	
KNOX, ATLEE M.			
Joins KDI Precision Products, Inc., Cincinnati, Ohio, as technical director	O	109	
KNOWLES, J. K.			
On the dynamic response of a beam to a randomly moving load (A)	Ap	134	
KOBAYASHI, ALBERT S.			
Stress intensity factors for penny-shaped cracks: part 1—semi-infinite solid (A); part 2—semi-infinite solid (A)	Ap	133	
KOBAYASHI, FRANCIS M.			
Appointed to newly created post of assistant vice-president for research and sponsored programs at University of Notre Dame, South Bend, Ind.	F	111	
KOBAYASHI, SHIRO			
Plastic deformation of copper and steel in hot extrusion through conical dies (A)	Ap	129	
Plastic instability in simple stretching of sheet metals (A)	Ap	129	
KOCH, PETER			
Receives U. S. Department of Agriculture superior service honor award	JI	112	
KOCHANEK, G. E.			
Plotting tooth profiles for gears with the computer (A)	JI	74	
KOESTLER, ARTHUR			
Hidden connection, the	JI	14	
Unconscious factors in creativity	Ja	92	
KOH, B.			
Effect of parallel shear flows on cylindrical pressure probes (A)	Ap	126	
KOHL, R. E.			
Rock tunneling with high-speed water jets utilizing cavitation damage (A)	S	82	
KOLLIKER, ERNEST B.			
Appointed vice-president, marketing for utility and industrial sales for Fairbanks Morse Power Systems Division of Cold Industries	Ap	157	
KONO, K.			
On the unstable vibrations of a shaft with unsymmetrical stiffness carrying an unsymmetrical rotor (A)	S	77	
KONSTANTINOV, M. C.			
Kinematic and dynamic analyses of rotary epicyclic engine (A)	D	73	
KOON, S. J.			
Investigation of a method for the general analysis of time-dependent two-dimensional laminar boundary layers (A)	Ag	54	
KOOSTRA, LAMBERT F.			
Advancement in pressure-vessel technology and its challenge for the future (A) ...N	72		
Elected ASME fellow	Ja	124	
KOONTZ, JAMES H.			
Appointed works manager for Mobile Drilling Co., Inc., Indianapolis, Ind.	Je	113	
KOROVCHINSKI, M. V.			
Some characteristics of a full journal bearing lubricated with electro-conducting gases (A)	N	72	
KOSKY, J. C.			
Largest extrusion press (C)	Mr	82	
KOTECKI, D. J.			
Effect of container capacitance on thermal transients in plane walls, cylinders, and spheres (A)	O	68	
KOVATS, A.			
Economics of the condenser circulating water supply in power stations, the (A)	F	75	
KOZIREV, S. P.			
On cumulative collapse of cavitation cavities (A)	Ag	55	
KRAFT, HANS			
Nonsteady flow in the turbine, recent work and thinking (A)	Ag	54	
KRAMER, J. J.			
Subsonic transport aircraft engine noise (A)	Je	78	
KRAMER, WILLIAM H.			
Obituary	JI	116	
KRASSICK, W. M.			
Development of a miniature, high-speed telemetry system for dynamic stress analysis (A)	F	74	
KRATZ, ALONZO P.			
Receives ASME 55-year certificate	Ap	157	
KRAUS, GEORGE			
Appointed director of engineering of Gries Reproducer Co., division of Coats and Clark, Inc., New Rochelle, N. Y.	Ja	121	
KRAUSE, E. W.			
Management of a maintenance department	D 34; (A) JI	71	
KRAUSE, H. H.			
Sulfur oxide reactions: radioactive sulfur and microprobe studies of corrosion and deposits (A)	My	73	
KRAUSE, W. E., JR.			
Evaluation of surface-controlled subsurface safety valves (A)	N	74	
KREICKER, W. H.			
Garbled blurb (C)—errata	F	80	
KREISLE, L. F.			
Stress concentration factors in shouldered shafts subjected to combination of flexure and torsion (A)	Ja	68	
KREITH, F.			
Convection heat transfer from broad leaves of plants (A)	Mr	76	
KRENZKE, M.			
Design of pressure hulls for small submersibles (A)	F	66	
KRESON, H. L.			
Application of a gas turbine to large off-highway vehicles (A)	Ja	60	
KRIMSKY, SIDNEY			
Engineers and ethics (C)	S	84	
KROEHLER, THOMAS P.			
Named vice-president and general manager of Elyria operations of Brown Fintube Co., Elyria, Ohio	Mr	109	
KRONENBERG, MAX			
Computerized determination and analysis of cost and production rates for machining operations: part 1—turning (A)	Ja	62	
KROON, REINOUT P.			
Named honorary member	Ja	102	
KU, P. M.			
Effects of lubricants, metals, temperature, and atmospheric environments on gear load-carrying capacity (A)	Ja	74	
KU, T. C.			
Design for fatigue based on energy concept (A)	Je	68	
KUBISZ, A.			
Contact region of a hard ball rolling on a viscoelastic plate (A)	Ja	72	
KUCHAR, N. R.			
Design of devices for optimum blood flow (A)	Je	67	
KUGEL, H. K.			
Receives ASME 55-year certificate	Ap	157	
KUHNOW, BERNARD F. L.			
Obituary	F	113	
KUKIN, IRA			
Chemical supplements for diesel air pollution control programs (A)	JI	64	
KUNZ, JOHN E.			
Named to new position of general manager of Milwaukee Tubular Products Division of A. O. Smith Corporation, Milwaukee, Wis.	Ap	157	
KUS, CHESTER A.			
Appointed mechanical equipment engineer, generation division of general engineering department at Detroit Edison Co., Detroit, Mich.	JI	111	
KUSHIYAMA, T.			
Matching of exhaust turbochargers to two-cycle diesel engines (A)	JI	67	
KVAPIL, R.			
Flow and extraction of solids from bins (A)	D	64	
KYLE, R. J.			
Information, computers and design (A)	Je	66	
KYSER, E. L.			
Linear elastic dipolar plates (A)	Ag	58	
L			
LABORATORIES			
Regional development laboratory, the—a self-help resource (A)	JI	74	
LAFFERTY, JAMES F.			
Automatic disreefing system for parachutes (A)	N	60	
Gas content, size, temperature, and velocity effects on cavitation inception in a Venturi (A)	Ap	126	
Velocity distributions in two-phase vortex flow (A)	JI	73	
LAMB, J. P.			
Some correlations of theory and experiment for developing turbulent free shear layers (A)	JI	71	
LAMINAR FLOW			
Numerical solution for combined free and forced laminar convection in horizontal rectangular channels (A)	O	68	
LAMINATES			
Continuum theory for a laminated medium (A)	Ag	57	
LAMSON, E. R.			
Engineering design of oil-free internal combustion engines (A)	JI	67	
LAMSON, OTIS F., JR.			
Elected ASME fellow	Mr	111	
Elected 1968 president of National Screw Machine Products Association, Cleveland, Ohio	Ja	121	
LANCE, G. M.			
Accelerometer for fluidic control systems, an (A)	My	76	
Minimum inertia gear train design (A)	Mr	80	
LANDIS, MARK H.			
Obituary	O	112	
Receives ASME 55-year certificate	Ap 157; Je	113	
LANDMANN, CHRISTOPHER R.			
Named group manager of new Department of Engineering and Government Liaison, Mercedes-Benz of North America, Inc., Fort Lee, N. J.	Ag	99	
LANE, R. O.			
You, your product, and the law: Liability without fault?	Je	22	
LANG, FREDERIC A.			
Pipeline seminar (C)	JI	76	
LANG, H. J.			
Unguarded moment (C) (Ed)	N	80	
LANGE, K. O.			
Automatic disreefing system for parachutes (A)	N	69	
LANGER, B. F.			
Appointed consulting engineer for Westinghouse Atomic Power Division, Pittsburgh, Pa.	Je	113	
LANGSNER, ADOLPH			
Obituary	O	112	
LANKFORD, WILLIAM T., JR.			
Elected ASME fellow	JI	113	
LAPERASHVILI, M. L.			
Simplified method of determining positions of links of R-G-C-R spatial mechanisms (A)	N	69	
LAPIN, V. P.			
Investigations into the detergent action of additives for motor oils in the presence of an electric field (A)	Ja	72	
LAROCK, B. E.			
Two models for cavity flow—theoretical summary and application (A)	Ag	55	
LARSON, C. F.			
Status report on ASME topics by Pressure Vessel Research Committee (A)	O	74	
LARSON, WILLARD R.			
Biomechanical and human factors outstanding service award	Ja	100	

LASERS		
Clean fracture	Jl	57
Laser instruments for measurements	..O	27
(A)	Je	68
New laser developments	F	60
New tungsten laser material	Ag	46
Particle detection by laser	O	58
LASK, FREDERICK		
Receives ASME 55-year certificate	Ap	157
LASKEY, RICHARD R.		
Appointed to new post of manager of turbo-machinery production, Solar Division of International Harvester Co., San Diego, Calif.	..D	
LASLEY, J.		
Addition to Tesar-Vidoscic approximate straightline maps for four-bar motion (A)	..N	
LATHAM, R. E.		
Analysis of clamp-type separable fluid connectors for nuclear vessel applications (A)	..D	
LATHES		
Machine tool imports (C)	..D	
LAUDIG, JOHN B.		
Air pollution around the country (C)	Ja	
LAUTZENHEISER, C. E.		
Influence of fabrication on reliability of high-temperature superheater tubes (A)	..N	
LAW		
Almost no protection	..O	
You, your product, and the law		
Insurance, the	Je	23
Liability without fault?	Je	22
Nature of the problem, the	Je	19
Unwritten contract, the	Je	20
LEA, ROBERT B.		
Obituary	..N	
LEAD		
Lead sound barrier	Mr	
LEAKAGE		
Calculation of leakage between metallic sealing surfaces (A)	..D	
Device provides controlled gas leaks	..S	
Zero leakage: results of an advanced lip seal technology (A)	Mr	
LEBLANC, RANDOLPH A., SR.		
Obituary	..F	
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Computerized method of characteristics calculations for unsteady pneumatic line flows (A)	Ag
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MANNING, JOHN PAUL	
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MANOLESCU, N. I.	
Structural synthesis of planetary mechanisms used in automatic transmissions (A)	N
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Alarm over the student shortage—M.I.T. holds major conference	Je
Big dollar, the (compensation programs for engineers)	N
Coming crisis in technical manpower?	Ap
Computerized estimation of manpower and scheduled workloads—a concept of management control (A)	Je
EJC salary survey (C)	O
Engineers and ethics (C)	S
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Engineers push troops (C)	Ap
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Power engineering education:	
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Part 2—Communication: industry to student	F
Part 3—which half of the class?	F
Part 4—Advancement and compensation	F
Part 5—Make him part of the team	F
Salaries and income of engineering teachers, 1966	Ag
Steps to halt "brain drain"	Jl
Survey reveals mixed trends: freshman engineering enrollments down, graduate students up for 1967-1968	Je
That pay check (Ed)	Jl
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Viscoelastic properties of soft tissue by discrete model characterization (A)	F
MARANVILLE, B.	
Critical assembly machine for plutonium experiments (A)	Ja
MARCHESE, JOSEPH F.	
Appointed senior product development engineer for R. & J. Dick Co., King of Prussia, Pa.	Jl
MARINECRAFT	
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MARINGER, R. E.	
Effects of some processing variables on dimensional stability (A)	S
MARK, MELVIN	
Appointed dean of Northeastern University's College of Engineering, Boston, Mass.	Ag
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Becomes 88th president of ASME	N
MARMES, MARK C.	
Receives 1st annual scholarship of Marquette University student section	Je
MARQUIS, FRANKLIN W.	
Receives ASME 60-year certificate	Ap
MARROIG, JORGE	
Appointed marketing manager for International Group of Sun Chemical Corp., New York, N. Y.	Mr
MARSCHNER, BERNARD W.	
Named vice-president for university affairs at Colorado State University, Boulder, Colo.	Mr
MARSH, H.	
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MARSH, J. C., IV	
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MARTIN, C. B.	
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MARTIN, H. W.	
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MARTIN, J. A.	
Identification of potential failure nuclei in rolling contact fatigue (A)	Mr
MARTIN, WALLACE H.	
Receives ASME 55-year certificate	Ap
MARTINS, ANTONIO	
Receives 1967-68 grant from Calvin W. Rice memorial scholarship fund of ASME Woman's Auxiliary	Ja
MARTO, P. J.	
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MASON, CLARON P.	
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MASON, JOHN W., JR.	
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Experiment and analysis of a flat disk squeeze-film bearing including effects of supported mass motion (A)	S
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MASSETH, FRANCIS X.	
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MASSIER, P. F.	
Heat transfer and laminar boundary-layer distributions in an internal subsonic gas stream at temperatures up to 13,900 deg R (A)	O
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Comparison of calculated and measured temperature distributions in forced-convection air-cooled gas turbine airfoils, a (A)	F
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MOKED, I.			
Toothed couplings—analysis and optimization (A)	My	78	
MOLDING			
Automatic foundry molding system	Jl	63	
Core glueing machine	F	64	
MOMENTUM			
Momentum lost and found	Je	61	
MONEY, H. A.			
Designing flush cylinder-to-cylinder intersections to withstand pressure (A)	N	74	
MONITORS			
Automated patient monitoring systems	N	56	
Monitors force on object under water	Ag	45	
Pneumotachometers in adverse environments	O	52	
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MOODY, FREDERICK J.			
Alfred Nobel prize	Ja	104	
MOON, F. C.			
Magnetoelastic buckling of a thin plate (A)	Ap	131	
MOONEY, R. N.			
Savings through use of value analysis techniques in engineering (A)	Je	67	
MOORE, C. C.			
Flanges-mounted ball-bearing fatigue tests (A)	Mr	76	
MOORE, GORDON L.			
Combining the collector and generator of a solar refrigeration system (A)	My	75	
MOORE, H. B.			
Calculation of leakage between metallic sealing surfaces (A)	D	65	
MOORE, H. CARLTON			
Heat value of refuse, the (C) (D)	O	77	
MOORE, R. E.			
Thermodynamic and economic analyses of closed feedwater heaters for supercritical pressure steam turbine cycles (A)	F	75	
Thermodynamic and economic appraisal of multipressure condensers (A)	N	71	
MOORE, W. T.			
Proposed ASME performance test code for nuclear reactor fuel (A)	Ja	64	
MORALES, GONZALO J.			
Joins staff of Battelle Memorial Institute, Columbus, Ohio, as resident representative in institute's Caracas offices	Jl	111	
MORECI, A. P.			
Plastic microemboli formed in roller and finger pumps (A)	F	71	
MORECROFT, D. W.			
Developments in supercleaning and boundary lubrication for gas-bearing gyros related to surface phenomena (A)	S	74	
MORGAN, ALBERT H.			
Receives ASME 50-year pin	O	110	
MORI, H.			
Theoretical flow-models for externally pressurized gas bearings (A)	S	74	
MORKOVIN, MARK V.			
Appointed professor of mechanical and aerospace engineering at Illinois Institute of Technology, Chicago, Ill.	Je	113	
MOROSOVA, I. A.			
Investigations into the detergent action of additives for motor oils in the presence of an electric field (A)	Ja	72	
MORRELL, LESTER			
Represents ASME at launching of HMS Queen Elizabeth II, in Glasgow, Scotland	My	115	
MORRIS, E. B.			
Effect of water chemistry and design on corrosion of carbon steel tubed feed-water heaters (A)	N	70	
MORRIS, ROBERT G.			
Maintaining quality products by maintaining quality people (A)	Mr	77	
MORRIS, THOMAS B.			
Obituary	Jl	116	
MORRISON, H. L.			
Application of a perturbation technique based on the method of characteristics to axisymmetric plasticity (A)	S	81	
MORRISON, W. E.			
Simulated models of future energy demand—probabilities and contingencies for 1980 and 2000 A.D. (A)	N	71	
MORSE, I. E., JR.			
Analysis and design of R-S-S-R spatial linkage (A)	N	66	
MORSE, RICHARD S.			
Automobile and air pollution, the	Mr	34	
MOSCO, C. A.			
Determination of metering pin profile for prescribed impact loading of airplane landing gear (A)	D	72	
MOSER, J. R.			
Handling interface problems between electronic and machine components (A)	Je	72	
MOTION PICTURES			
Engineering films	Mr 91; My 97; Ag 81		
MOTOR VEHICLES. <i>See</i> VEHICLES, MOTOR			
MOTORS			
Design of servovalves for constant-gain liquid-feed systems in variable-thrust rocket motors, the (A)	Mr	80	
Heavy-duty motors	S	71	
High-speed positioning motor	Je	44	
Investigations into the detergent action of additives for motor oils in the presence of an electric field (A)	Ja	72	
Tunneling machines	My	66	
MOTT, CHARLES S.			
Receives ASME 70-year certificate	Ap	157	
MOTT, GILBERT C.			
Joins Aluminum Division of Olin, New York, N. Y., in newly created post of vice-president of engineering	My	115	
MOUAT, HARRY G.			
Receives ASME certificate of appreciation	D	107	
MOULSON, J. A.			
Nucleate pool boiling of nitrogen with different surface conditions (A)	O	70	
MOW, V. C.			
Effects of viscoelastic lubricant on squeeze film lubrication between impinging spheres (A)	Ja	72	
MOWBRAY, D. F.			
Fatigue-crack growth-rate studies of low-alloy pressure-vessel steels (A)	D	74	
MUELLER, VICTOR H.			
Obituary	O	113	
MUELLER, W. K.			
Development of a periodic flow in a rigid tube (A)	Ag	52	
MUHLENKAMP, JOHN H.			
Receives 1967-68 grant from Sylvia W. Farny scholarship fund of Woman's Auxiliary	Ja	116	
MUIR, C. D.			
Recent research in hypervelocity impact rock disintegration (A)	Ag	53	
MULLER, HENRY N.			
Elected vice-president, technical director, and secretary of National Electrical Manufacturers Association's new Standards Council	Ap	157	
MULLER, K. A.			
Obituary	N	113	
MUNGER, H. P.			
High-strength 9Ni-4Co alloys for high-pressure applications (A)	O	74	
MUNN, HUGH F.			
Obituary	O	113	
MURPHY, C. E.			
Elastic stability of circular tubes of circumferentially variable thickness under external pressure (A)	D	68	
MURPHY, EUGENE			
Elected to National Academy of Engineering	Je	113	

MURPHY, GLENN	U. S. science policy—past and present: UNESCO releases NSF report as worldwide information document	82
Receives alumni honor award from College of Engineering of University of Illinois for distinguished service in engineering	D	
MURPHY, W. J. H.	NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS	
City of Chicago's air pollution control program (A)	Engineering accomplishments	142
MURRAY, JOHN F.	NATURAL GAS	
Pumps for fluid power: part 3—for extreme environments	Kilowatt-hours from LNG—the potential for using liquefied gas for power generation (A)	70
MURRAY, S. F.	NATURE	
Material considerations for high temperature tilting pad gas bearings (A)	Beauty of it, the (Ed) EUITFE (Electric Utility Industry Task Force on Environment)	17
MURRIN, T. A.	NAUGHTON, D. A.	
Experimental program to provide two-dimensional cascade data applicable to pump design, an (A)	Protection of rotating machinery (A)	76
MUSELER, W. J.	NAVIGATION	
Design and development of the HWOCR pressure tube assembly, the (A)	GMT/local conversion chart	48
MUSSELMAN, LYTTON C.	Instant fix	51
Obituary	Satellite at the helm	91
MUSTER, D.	NEAL, STANFORD	
Filtering characteristics of long, cylindrical steel bar having discontinuities in cross-sectional area (A)	Elected ASME fellow	111
MYERS, G. E.	NEEB, A. F.	
Effect of container capacitance on thermal transients in plane wall, cylinders, and spheres (A)	Maintenance cost controls (A)	68
MYERS, P. S.	NEELY, FRANK H.	
Experimental correlation between rate-of-injection and rate-of-heat-release in a diesel engine (A)	Receives ASME 60-year certificate ..	157
N	NEFF, DARBY B.	
NA, TSUNG YEN	Appointed chief engineer of services at Denison Division of Abex Corp., Columbus, Ohio	111
Flow oscillation in the laminar radial flow of incompressible fluids between disks (A)	NEFF, J. J.	
Heat transfer in the radial creeping flow between parallel disks (A)	New family of compact Cummins turbochargers (A)	66
Natural convection flow of Powell-Eryngi fluids between two vertical flat plates (A)	NEGRONI, F.	
Similarity solutions of laminar, incompressible boundary-layer equations of non-Newtonian fluids (A)	Plastic instability in simple stretching of sheet metals (A)	129
NACHBAR, W.	NEIMARK, J. E.	
Dynamic snap-through of imperfect viscoelastic shallow arches (A)	Fully plastic, plane-strain tension of a notched bar, the (A)	78
NAGORSKY, HAROLD I.	NEKLUTIN, CONSTANTINE N.	
Named director, fiscal administration, and controller of ASME	Elected ASME fellow	116
NAKAO, K.	NELLES, MAURICE	
Two years' experience of a gas turbine firing residual fuel (A)	Elected fellow of American Institute of Chemists	107
NASSMAN, ARMAND	NELSON, C. W.	
Appointed manager, Nuclear Engineering Division of United States Testing Company's main laboratory in Hoboken, N. J.	Transient axially symmetric excitation of a circular elastic rod in plane strain (A)	56
NATIONAL ACADEMY OF SCIENCES	NELSON, F. W.	
NAS to aid AEC	Corrosion protection process for edges of porcelain enameled products (A)	71
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	Glass-lined pipe for the petroleum industry (A)	74
Moon ship	NELSON, W. J.	
Reentry F experiment	Swage-bond process for joining aluminum pipe (A)	69
Tapping the practical technological advances from NASA projects (A)	NEPTUNIUM	
Tech briefs	New transuranium isotopes	53
NATIONAL AIR POLLUTION CONTROL ADMINISTRATION	NEUBAUER, L. W.	
NAPCA committee formed	Development of simplified empirical formula for lateral pressures of hay wafers (A)	62
NATIONAL BUREAU OF STANDARDS	NESS, WILLIAM H.	
Inside air pollution (C)	Obituary	113
NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	NEUTRINOS. <i>See</i> SOLAR ENERGY	
Product responsibility	NEUTRONS	
Standardization	Portable neutron TV system	123
NATIONAL MACHINE TOOL BUILDERS' ASSOCIATION	NEVINS, R. G.	
In jeopardy	Film boiling heat transfer from an oscillating sphere (A)	76
Machine tool imports (C)	NEW, WINSTON R.	
NMTBA policy change	Elected ASME fellow	117
NATIONAL RESEARCH COUNCIL	NEWHEY, R. A.	
Needed: rapid excavation	Speed regulation study for Bay d'Espoir hydroelectric generating solution (A) ..	128
NATIONAL SAFETY COUNCIL	NEWMAN, A. K.	
Honored for safety	New Liapunov function for nonlinear time-varying systems (A)	74
NATIONAL SCIENCE FOUNDATION	NEWS BRIEFS	
Deep ice probeJa 84; F 94; Mr 94; Ap 142; My 90; Je 90; JI 84; Ag 76; S 98; O 84; N 90; D 84	
National Research Council	NEWTON, WALTER C.	
Needed: rapid excavation	Obituary	119
NATIONAL SAFETY COUNCIL	NIAZI, MUZZAMIL	
Honored for safety	Charles T. Main award	100
NATIONAL SCIENCE FOUNDATION	NICHOLS, KENNETH D.	
Deep ice probe	Elected to National Academy of Engineering	113
NSF authority broadened	NICKEL	
NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS	Gregarious metal, the	112
Engineering accomplishments	NICKELL, R. E.	
NATURAL GAS	Approximate solutions in linear, coupled thermelasticity (A)	58
Kilowatt-hours from LNG—the potential for using liquefied gas for power generation (A)	NIEHOFF, JOHN C.	
NATURE	Automated (unmanned) Mars sample return missions (A)	Mr 68
Beauty of it, the (Ed) EUITFE (Electric Utility Industry Task Force on Environment)	NIELSEN, EDWARD G.	
NAUGHTON, D. A.	Flow oscillation in the laminar radial flow of incompressible fluids between disks (A)	Ap 128
Protection of rotating machinery (A)	NIELSEN, M.	
NAVIGATION	Elected ASME fellow	Ja 124
GMT/local conversion chart	NING-LEE, PETER YUET	
Instant fix	Selected as recipient of annual scholarship award of San Francisco section of ASME	Je 113
Satellite at the helm	NISHI, M.	
NEAL, STANFORD	Photographic study of the three-dimensional flow in a radial compressor, a (A)	My 69
Elected ASME fellow	NISSAN, ALFRED H.	
NAVE, STANFORD	Elected a vice-president of West Virginia Pulp and Paper Co., New York, N. Y. ..	F 111
Navigation	NITROGEN	
Bubble growth and collapse in liquid nitrogen (A)	Bubble growth and collapse in liquid nitrogen (A)	Ja 65
NIXON, J.	Nucleate pool boiling of nitrogen with different surface conditions (A)	O 70
Emulsified fuel for aircraft ..	NIXON, J.	
Ja 26; (A) ..	Emulsified fuel for aircraft ..	Je 78
NIXON, W. B.	Air-cushion vehicles: their promise	My 40
Air-cushion vehicles: their promise	NOEL, L. E.	
NOISE	Maintenance planning in small plants (A)	Jl 70
Controlling process-plant noise	NOISE	
Lead sound barrier	Controlling process-plant noise	O 23
Methods of controlling process plant noise (A)	Lead sound barrier	Mr 63
Modular approach to engine silencing as related to compressor-station noise abatement (A)	Methods of controlling process plant noise (A)	F 70
Required study: noise control	Modular approach to engine silencing as related to compressor-station noise abatement (A)	Jl 65
Sound and the psyche	Required study: noise control	D 87
Subsonic transport aircraft engine noise (A)	Sound and the psyche	Ag 40
NOLL, M. R.	Subsonic transport aircraft engine noise (A)	Je 78
Design considerations of diaphragm circuit elements (A)	NOLTE, G.	
NONDestructive TESTING	Danish CODOG frigates operational progress report (A)	Je 79
NDT: nondestructive testing of tubes ..	NONDSTRUCTIVE TESTING	
NDT and bridges	NDT: nondestructive testing of tubes ..	My 32
NDT and bridges	NDT and bridges	S 99
NONLINEAR SYSTEMS	NONLINEAR SYSTEMS	
Control of oscillatory nonlinear systems, the (A)	Control of oscillatory nonlinear systems, the (A)	F 74
New Liapunov function for nonlinear time-varying systems (A)	New Liapunov function for nonlinear time-varying systems (A)	F 74
Triple input describing function and applications to the stability of nonlinear systems (A)	Triple input describing function and applications to the stability of nonlinear systems (A)	F 73
NONSTRUCTURAL MATERIALS. <i>See</i> STRUCTURAL AND NONSTRUCTURAL MATERIALS	NONSTRUCTURAL MATERIALS. <i>See</i> STRUCTURAL AND NONSTRUCTURAL MATERIALS	
NOON, T. CYRIL	NOON, T. CYRIL	
Richards memorial award	Obituary	Ja 106
NORBURY, J. F.	NORBURY, J. F.	
Turbulent flow of dilute aqueous polymer solutions (A)	Turbulent flow of dilute aqueous polymer solutions (A)	Ap 126
NORD, CARL E.	NORD, CARL E.	
Obituary	Obituary	Ag 103
NORDIGREN, R. P.	NORDIGREN, R. P.	
Elastic stability of circular tubes of circumferentially variable thickness under external pressure (A)	Elastic stability of circular tubes of circumferentially variable thickness under external pressure (A)	D 68
NORELL, JACQUES J.	NORELL, JACQUES J.	
Obituary	Obituary	O 113
NORGREN, CARL A.	NORGREN, CARL A.	
Obituary	Obituary	D 111
NORMAN, RANULPH	NORMAN, RANULPH	
Letting off steam (C)	Letting off steam (C)	Ap 137
NORRIE, D. H.	NORRIE, D. H.	
Analysis and calibration of the five-hole spherical pitot, the (A)	Analysis and calibration of the five-hole spherical pitot, the (A)	Ap 126
NORRIS, E. B.	NORRIS, E. B.	
Consideration in design of tube-to-tubeshell joints in high-temperature heat-exchange equipment (A)	Consideration in design of tube-to-tubeshell joints in high-temperature heat-exchange equipment (A)	N 73
NORWOOD, F. R.	NORWOOD, F. R.	
Theoretical and experimental investigation of the dynamic response of rolamite, a (A)	Theoretical and experimental investigation of the dynamic response of rolamite, a (A)	N 69
NOTCHES	NOTCHES	
Influence of notches on mechanical behavior at elevated temperatures, the: some metallographic observations (A)	Influence of notches on mechanical behavior at elevated temperatures, the: some metallographic observations (A)	F 69
Path independent integral and the approximate analysis of strain concentration by notches and cracks, a (A)	Path independent integral and the approximate analysis of strain concentration by notches and cracks, a (A)	S 79
Study of the notch effect and of specimen design and loading on the fatigue properties of cast steel, a (A)	Study of the notch effect and of specimen design and loading on the fatigue properties of cast steel, a (A)	My 75
NOTTAGE, H. B.	NOTTAGE, H. B.	
Heating of a leaf (A)	Heating of a leaf (A)	Mr 74

NOVAK, J. D.			
Effect of pressure on the non-Newtonian behavior of polymer blended petroleum oils, the (A)	67	D	
Some measurements of high-pressure lubricant rheology (A)	74	Je	
NOZZLES			
Approximate analysis of the plastic limit pressures of nozzles in cylindrical shells (A)	79	Mr	
Assessment of the plastic strength of pressure vessel nozzles (A)	74	D	
NUEBEL, G. C.			
Bulk liquid helium distribution system—some design considerations (A)	67	Ja	
NUCLEAR ENGINEERING			
Analysis and test of a three-dimensional manifold reentrant tube assembly (A)	70	Ja	
Auxiliary turbine drives for nuclear applications (A)	70	Ja	
Critical assembly machine for plutonium experiments (A)	70	Ja	
Design and development of the HWOCR pressure tube assembly, the (A)	70	Ja	
Design and performance features of molten-salt breeder reactors (A)	70	Ja	
Design of 1000-Mwe liquid-metal-cooled fast breeder reactor (A)	70	Ja	
Design of a shipping container for the new generation of nuclear power reactor fuel assemblies (A)	70	Ja	
Fuel and repair facility at the Enrico Fermi atomic power plant (A)	71	Ja	
Nuclear fracture	70	F	
Nuclear fuel cost analysis with NUFCO (A)	71	Ja	
Prediction of transient performance of pressurized water reactors, the (A)	71	Ja	
Progress in optimizing the gas-cooled fast breeder reactor (A)	71	Ja	
Site-assembled steel pressure vessels (A)	71	Ja	
Undergraduate nuclear study becomes standard elective at Newark	70	Ap	
NUCLEAR FUEL			
New nuclear fuel plant	76	Ag	
NUCLEAR SOCIETY, AMERICAN. <i>See</i> AMERICAN NUCLEAR SOCIETY			
NUMERICAL CONTROL			
NC machining center	60	D	
NUSBAUM, MILTON S.			
Promoted to manager of Ballistics and Explosives Section at IIT Research Institute, Chicago, Ill.	109	O	
NYFAN, LESTER J.			
Appointed chairman of mechanics and materials department, School of Engineering, San Fernando Valley State College, Northridge, Calif.	121	Ja	
OAKLEY, WALTER W.			
Receives ASME 55-year certificate	157	Ap	
OBERT, EDWARD F.			
Elected ASME fellow	100	Ag	
OBITUARIES			
Ja 127; F 113; Mr 113; Ap 161; My 119; Je 119; JI 115; Ag 103; S 124; O 112; N 110; D	111	D	
O'BRIEN, EUGENE			
WAM issue, the (C)	82	Mr	
O'BRIEN, J. L.			
Future research in rolling contact fatigue (A)	76	Mr	
O'BRIEN, MORROUGH P.			
Named recipient of 41st Lamme award of the American Society for Engineering Education	107	D	
OCEAN ENGINEERING			
Ocean engineering	87	Jl	
ODAR, F.			
Forces on a sphere moving steadily along a circular path in a viscous fluid (A)	79	S	
O'DAY, JAMES			
Modeling approach to motor vehicle inspection, a (A)	70	F	
O'DONNELL, WILLIAM J.			
Pi Tau Sigma gold medal	106	Ja	
OEHLISCHLAGER, W. K.			
Vapor-liquid separation at supersonic velocities (A)	69	D	
OFFSHORE DEVELOPMENTS			
Current-induced bending moments in laying offshore pipeline (A)	68	D	
Joint petroleum mechanical engineering and pressure vessel and piping conferences, and ASME study group for exchange of offshore information	90	D	
OFFSHORE DRILLING			
Engineers solve deep problem	48	D	
OGALE, V. A.			
Gas turbine blade cooling—retrospect and prospect (A)	77	F	
OH, SIN K.			
Approximate analysis of transient laminar boundary-layer development (A)	76	N	
O'HARA, J. K.			
Power engineering education: part 4—advancement and compensation	40	F	
OIL			
Oil in Neptune's locker, the	57	D	
Two years' experience of a gas turbine firing residual fuel (A)	77	Je	
OIL SHALE			
Shale oil as a future energy source (A)	71	N	
OKIISHI, T. H.			
Experimental study of the turbulent-flow boundary-layer development in smooth annuli, an (A)	128	Ap	
OLCHOFF, MAURICE			
Obituary	161	Ap	
OLDENBURGER, RUFUS			
Receives citations from American Automatic Control Council and ASME Automatic Control Division	111	F	
OLIVE, THEODORE R.			
Obituary	103	Ag	
O'LOUGHLIN, J. R.			
Influence of chemical inhibitor addition on reverse-jet flame stabilization, the (A)	70	My	
OMORI, T.			
Two years' experience of a gas turbine firing residual fuel (A)	77	Je	
OMOTEHARA, I.			
Matching of exhaust turbochargers to two-cycle diesel engines (A)	67	Jl	
ONDERDONK, PAUL T.			
Elected ASME fellow	108	N	
O'NEAL, W. C.			
Critical assembly machine for plutonium experiments (A)	70	Ja	
O'NEIL, D. A.			
Governing gas turbine engines for marine propulsion—power versus speed control (A)	75	Je	
O'NEIL, FREDERICK W.			
Obituary	127	Ja	
O'NEILL, J. F.			
Hydrodynamics of stillwells (A)	73	Jl	
ONO, T.			
Basic investigation of built-up edge (A)	130	Ap	
OPPENHEIMER, E. D.			
Measurement of short-transverse tensile-impact energy of rolled steel plate (A)	72	N	
OPTICS			
Hi-fi "see-in"	56	S	
Measuring iris dilation	51	D	
New laser developments	60	F	
Waveguide detector of the night-flying moth	55	D	
ORECUTT, F. K.			
Detection of mechanical component malfunction caused by friction and wear (A)	68	Je	
Investigation of externally pressurized steam-lubricated journal bearing (A)	50	Ag	
Steady-state and dynamic properties of the floating-journal bearing (A)	73	Ja	
ORDNANCE. <i>See</i> MILITARY ORDNANCE			
ORE			
Use of integrated circuitry logic for ore-handling automation (A)	62	D	
ORE HANDLING			
Ore conveyor system	64	O	
ORIFICES			
Transient effects in the discharge of compressed air from a cylinder through an orifice (A)	73	Jl	
ORNING, A. A.			
Laboratory study of high-temperature corrosion on fireside surfaces of coal-fired steam generators, a (A)	72	My	
ORR, ALEXANDER M.			
Receives ASME 70-year certificate	157	Ap	
ORR, LEIGHTON E.			
Elected ASME fellow	124	Ja	
OSBORN, H. H.			
Performance and potential of perforated plates as a heat transfer surface (A)	76	Je	
OSCILLATION			
Behavior of viscoelastic media under small sinusoidal oscillations superposed on finite strain (A)	57	Ag	
Blade oscillations in one-stage axial turbo-machinery (A)	54	Ag	
DYNAMIC CAPACITY OF OSCILLATING ROLLING ELEMENT BEARINGS (A)	73	Ja	
ELIMINATION OF COMBUSTION-DRIVEN OSCILLATIONS IN A LARGE AIR HEATER (A)	77	F	
FLOW BETWEEN TWO PARALLEL CIRCULAR DISKS, ONE OF WHICH IS SUBJECT TO A NORMAL SINUSOIDAL OSCILLATION, THE (A)	76	S	
FLOW OSCILLATION IN THE LAMINAR RADIAL FLOW OF INCOMPRESSIBLE FLUIDS BETWEEN DISKS (A)	128	Ap	
ON A CLASS OF TWO-DEGREE-OF-FREEDOM OSCILLATIONS (A)	80	S	
ON THE SPHERICAL OSCILLATING CYLINDER MECHANISM (A)	72	D	
OSLICK, H.			
Design and development of the HWOCR pressure tube assembly, the (A)	70	Ja	
OTA, H.			
On the unstable vibrations of a shaft with unsymmetrical stiffness carrying an unsymmetrical rotor (A)	77	S	
OURSLER, WILL			
Focusing on the UFO issue			
BR of "Challenge to Science" by Jacques and Janine Valley	78	Jl	
OVERSEAS MARKETING			
Common market—business hopes	64	N	
Wanted: foreign investment	90	Je	
OVERSEAS SURVEY			
Ja 60; F 64; Mr 66; Ap 122; My 67; Je 62; Jl 62; Ag 46; S 70; O 64; N 64; D	60		
OWEN, F. S.			
Experimental program to provide two-dimensional cascade data applicable to pump design, an (A)	127	Ap	
OZISIK, M. NECATI			
Heat transfer for laminar flow in a curved pipe (A)	73	F	
Integral transform in the solution of heat-conduction equation in the Cartesian coordinate system (A)	75	Mr	
P			
PACKARD, ROLAND A.			
Obituary	103	Ag	
PAIN, EDGAR F.			
Obituary	116	Jl	
PALLADINO, N. JOSEPH			
Elected to board of directors of American Nuclear Society, Hinsdale, Ill.	110	O	
PALMER, M.			
Plant layout principles for hydrocarbon processing (A)	70	Jl	
PALSGROVE, GRANT K.			
Receives ASME 55-year certificate	157	Ap	
PAN, C. H. T.			
Application of gas-lubricated bearings to instruments (A)	72	S	
Design studies of an opposed-hemisphere gyro spin-axis gas bearing (A)	76	S	
Dynamic behavior of the spherical squeeze-film hybrid bearing (A)	72	S	
Investigation of externally pressurized steam-lubricated journal bearing (A)	50	Ag	
On error torques of squeeze-film cylindrical journal bearings (A)	72	Ja	
PAN, C. L.			
Characteristic-function approach to the thermal performance of a multistream counterflow heat exchanger with and without the effect of longitudinal heat conduction, a (A)	74	Mr	
PANDA, B. C.			
New method of testing the surface finish of a metal, a (A)	130	Ap	
PAO, YIH-HSING			
Magnetoelastic buckling of a thin plate (A)	131	Ap	
WAVE FUNCTION EXPANSIONS AND PERTURBATION METHOD FOR THE DIFFRACTION OF ELASTIC WAVES BY A PARABOLIC CYLINDER (A)	131	Ap	
PAOLETTI, ROBERT J.			
Appointed manager of alloy materials control at Owens-Corning Fiberglas Corp., Toledo, Ohio	113	Je	
PARACHUTES			
Automatic disreefing system for parachutes (A)	69	N	
PARISH, JOSEPH M., JR.			
Obituary	127	Ja	
PARKER, CHARLES G.			
Elected ASME fellow	116	Je	
PARKER, G. E.			
Hydromechanical fuel control for portable gas turbine generator sets (A)	70	My	
PARKER, J. D.			
Bubble growth and collapse in liquid nitrogen (A)	65	Ja	

PARKER, R. J.	
Contact conformity effects on spinning torque and friction (A)	D 65
Evaluation of lubricants for high-temperature ball bearing applications (A)	Ja 72
PARKHURST, D. F.	
Convection heat transfer from broad leaves of plants (A)	Mr 76
PARKINSON, GORDON L.	
Engineers and ethics (C)	S 84
PARKINSON, RUSSELL W.	
Obituary	O 113
PARLETT, HARRY L., JR.	
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Work of thrust bearings with spiral grooves cut on the force pump rotor (A)	O	72	
ROWE, GEORGE E. (<i>factitious name</i>)			
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ROWAND, WILL H.			
Elected to National Academy of Engineering	Je	113	
ROWE, H. H., JR.			
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ROWLEY, LOUIS N.			
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Nominated for 1968-1969 president of Alumni Association of Polytechnic Institute of Brooklyn	Ap	157	
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Stress concentration in a rubber sheet under axially symmetric stretching (A)	Ap	132	
RUBIN, D.			
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RUDNICKAS, V. W.			
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RUMBARGER, J. H.			
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RUMPF, W. S.			
Regional development laboratory, the—a self-help resource (A)	Jl	74	
RUSSO, E. P.			
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RUST, S. MURRAY, JR.			
Appointed chairman of the board of Litton Industries, Beverly Hills, Calif.	O	109	
Promoted to corporate vice-president, Litton's Industrial Systems and Equipment Group	F	111	

RUTH, ROBERT L.	
Named general manager of Industrial Hydraulics Division of Vickers Division of Sperry Rand Corp., Troy, Mich.	Ja 121
RYLANDER, H. G.	
Stress concentration factors in shouldered shafts subjected to combinations of flexure and torsion (A)	Ja 68
RYLEY, D. J.	
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SACKMAN, J. L.	
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Goals realized	O 78
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Safer than ever: new and broader safety motor vehicle standards proposed	Ja 79
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SAIBEL, E.	
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SAIBEL, EDWARD A.	
Receives federal contract to try to improve auto safety using mathematics and a computer	Je 113
SAKAI, TOSHIMICHI	
On the slip factor of centrifugal and mixed-flow impellers (A)	F 76
SALERNO, VINCENT	
Appointed chief mechanical engineer of Chem Systems Inc., New York, N. Y.	S 121
SALERNO, VITO L.	
Installed as president of Manhattan Chapter of New York State Society of Professional Engineers	O 109
Stress solution for an infinite plate containing two arbitrary circular holes under equal biaxial stresses (A)	N 72
SAMANS, WALTER	
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SANDERS, WHITNEY A.	
Becomes president and chairman of board of STV, Inc., newly formed holding company	O 109
SANDERSON, CHASE O.	
Elected to serve on Engineering Index board of trustees, 1968-1971	O 110
SANDOR, GEORGE N.	
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Principles of a general quaternion-operator method of spatial kinematic synthesis (A)	S 80
SANFORD, W. B.	
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Operation of large steam turbines to limit cyclic thermal cracking, the (A)	F 75
SAROFIM, A. F.	
Optical constants of soot and their application to heat-flux calculations (A)	O 68
SARPAYA, T.	
Analytical study of separated flow about circular cylinders, an (A)	Jl 73
SASLOVE, N.	
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SASS, SAMUEL	
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SATERBAK, R. T.	
Experimental investigation of heat transfer from a spray cooled isothermal cylinder, an (A)	O 68
SAUNDERS, SIR OWEN	
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SAUTER, DONALD M.	
Named general manager of distribution apparatus division of Westinghouse Electric Corp., Pittsburgh, Pa.	D 107
SAVAGE, CHARLES F.	
Elected ASME fellow	My 117
SAVAGE, H. K.	
Shale oil as a future energy source (A)	N 71
SAVINO, JOSEPH M.	
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SAVKAR, S. D.	
Experimental study of switching in a bistable fluid amplifier (A)	My 76
SAWCZUK, A.	
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SAYRE, RICHARD L.	
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SCALA, S. M.	
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SCANLAN, THOMAS R.	
Elected president of AMF Thermatool, Inc., New Rochelle, N. Y., wholly owned subsidiary of American Machine & Foundry Co.	S 121
SCAVENGING	
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SCHABERG, G. J.	
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SCHAFFER, HERMAN W.	
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SCHAFFER, R. R.	
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SCHATZBERG, P.	
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SCHEEL, L. F.	
Independent solution for piston gas compression (A)	Ag 53
SCHETZ, J. A.	
Approximate analysis of transient laminar boundary-layer development (A)	N 76
SCHILHANS, MAX J.	
Stress analysis of shells of revolution under arbitrary loading (A)	My 78
SCHLENKER, H. OSCAR	
Appointed chief engineer of Hub City Division, Safeguard Industries, Aberdeen, South Dakota	O 109
SCHMIDT, J. J.	
Selection and utilization of diesel locomotives (A)	My 78
SCHMIDT, KARL E.	
Elected ASME fellow	Ap 159
SCHMIDT, TERRY D.	
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SCHMITT, W. A.	
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SCHNEIDER, BERNARD R.	
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SCHNEIDER, RAY M.	
New manager of sales of auxiliary equipment and spares for Blaw-Knox Co.'s Foundry & Mill Machinery Division, Pittsburgh, Pa.	Jl 121
SCHNEIDER, ROBERT W.	
Joins Bonney Forge Division, Bonney Forge & Foundry, Inc., Allentown, Pa., as manager of engineering	S 121
SCHNURE, N. M.	
Heat transfer to carbon dioxide in the immediate vicinity of the critical point (A)	O 70
SCHOENHALS, R. J.	
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SCHRAM, J. W.	
Steady-state three-dimensional analysis of towed systems (A)	D 69
SCHRANK, EDWIN P.	
Named general manager of McNeil Akron Division of McNeil Corp., Akron, Ohio	Jl 111
SCHRAUB, F. A.	
Isokinetic sampling probe technique applied to two-component, two-phase flow (A)	My 76
SCHROYER, GEORGE B.	
Elected vice-president of Harza Engineering Co., Chicago, Ill.	Jl 111
SCHULTZ, A. B.	
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SCHUSTER, J. R.	
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SCHWEITZER, PAUL H.	
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SCRAGGS, CHARLES R.			
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SCROGGIN, J. T.			
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SCRUTTON, R. F.			
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Huge bellows seals bubble chamber	F		
Inward pumping in mechanical face seals (A)	Ap		
Low temperature evaluation of rear axle seals (A)	Ap		
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Zero leakage: results of an advanced lip seal technology (A)	Mr	70	
SEATON, EARL			
Named editor and publisher of "Oil and Gas Equipment", Tulsa, Okla.	Mr	109	
SEAY, J. D. JR.			
Named general superintendent of Tennessee Eastman Co., Kingsport, Tenn.	D	107	
SERAN, R. A.			
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SEBASTIAN, F. P.			
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SEELEY, LAUREN E.			
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SEELEY, FRED B.			
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SEFCIK, ANDREW J.			
Appointed sales engineer for Northeastern region of Industrial Boiler Operations, Combustion Engineering Inc., New York, N. Y.	Jl	111	
SEIBERT, A. G.			
Feasibility evaluation of boron filament-wound pressure vessel (A)	N	73	
SELIG, B. J.			
Design and development of HWOGR pressure tube assembly, the (A)	Ja	70	
SEMAR, HAROLD W.			
Elected ASME fellow	F	109	
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SENOO, Y.			
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SEROVY, G. K.			
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SERPAN, C. Z., JR.			
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SETCHFIELD, T. L.			
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SHABAIK, A. H.			
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SHADE, A. H.			
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SHAFFNER, CHARLES R.			
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SHAFTS			
On the unstable vibrations of a shaft with unsymmetrical stiffness carrying an unsymmetrical rotor (A)	S	77	
Shaft alignment using proximity transducers (A)	N	76	
Shaft geometry—a major factor in oil seal performance (A)	Mr	73	
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SHAH, R. K.			
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SHAH, RAMESH K.			
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SHANK, MAURICE			
Elected ASME fellow	S	122	
SHANSTROM, R. T.			
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SHAPIRO, W.			
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SHARKEY, E. JOSEPH, JR.			
Appointed district manager of power generation sales for General Electric Company's Pacific Southwest and Rocky Mountain area, Los Angeles, Calif.	D	107	
SHARPE, ROBERT Q.			
Product line manager of products department, Mobil Oil Corp., New York, N. Y., retires after 25 years with firm	My	115	
SHATTUCK, CHARLES H.			
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SHAW, LOUIS EATON			
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Receives ASME 55-year certificate	Ap	157	
SHAW, MILTON C.			
Elected to National Academy of Engineering	Je	113	
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SHIAR			
Elastic-plastic stress and strain distributions near crack tips due to antiplane shear (A)	My	75	
Geometry of the shear zone in metal cutting, the (A)	Ap	130	
Integral-method solution of laminar condensation with shear in stagnant vapor (A)	O	70	
Some correlations of theory and experiment for developing turbulent free shear layers (A)	Jl	71	
Temperatures in the shear zone in metal cutting (A)	Ap	129	
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SHERBY, T. A.		
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SHERIDAN, DAVID C.		
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SHERIDAN, J. U.		
Evaluation of generating station maintenance using an electronic data processing procedure (A)	Jl	69
SHERMAN, DELMAR C.		
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SHEU, C. Y.		
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SHIH, C. C.		
Experimental investigation of flow characteristics in a supersonic bistable amplifier (A)	Jl	72
SHIH, K. T.		
Helium transport properties and the Lennard-Jones 6-9 potential (A)	Ja	66
SHILDS, LEE H.		
Elected ASME fellow	Mr	111
SHIMA, A.		
Behavior of a spherical bubble in the vicinity of a solid wall, the (A)	Ap	127
SHINOHARA, K.		
Gravity and vibration effects on flow of cohesive materials from hopper (A)	D	64
SHIPINSKI, JOHN		
Experimental correlation between rate-of-injection and rate-of-heat-release in a diesel engine (A)	Jl	65
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SHIRALKAR, B. S.		
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SHOCK ABSORBERS		
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SHOR, G. I.		
Investigations into the detergent action of additives for motor oils in the presence of an electric field (A)	Ja	72
SHOUMAN, A. R.		
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SHOUPP, W. E.		
Elected ASME fellow	Jl	113
SIBULKIN, M.		
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SIDEBOTTOM, O. M.		
Plastic behavior of open-end and closed-end thick-walled cylinders (A)	Mr	78
SIDELL, R. S.		
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SIEBEN, CLARENCE M.		
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SIEGEL, ROBERT		
Transient solidification of a flowing liquid on a cold plate including heat capacities of the frozen layer and plate (A)	Mr	73
SIKORSKY, IGOR I.		
Elected to National Academy of Engineering	Je	113
Receives John Fritz medal, 1967	Ja	102
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SILFIN, H.		
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SILHAY, FRANK J.		
Named sales engineer for midwest region of industrial boiler operations of Combustion Engineering, Inc., Windsor, Conn.	Mr	109
SILOS		
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SIMONS, W. H.		
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SIMPSON, ARTHUR M.		
Receives ASME 50-year pin	D	107
SIMPSON, R. E.		
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SINNOTT, RICHARD J.		
New director of Generation Division of General Engineering Department, Detroit Edison Company, Detroit, Mich.	Ap	157
SINTES, FRED, JR.		
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SIPENHOF, I. E.		
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SISSOM, L. E.		
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SIZLOVE, OLIVER J.		
Elected ASME fellow	Ap	159
SIZER, P. S.		
Evaluation of surface-controlled subsurface safety valves (A)	N	74
SKINNER, HALCYON N.		
Receives ASME 50-year certificate	Ap	157
SKOLNICK, A.		
Jets, props and air cushions—propulsion technology and surface effect ships (A)	Je	79
SLAG		
Electroslag remelted superalloys for gas turbine engines (A)	Je	76
SLAVIN, F. J.		
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Steady-state dynamic response of a limited slip system (A)	Ag	58
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Interaction of a sloshing liquid with elastic containers (A)	Ag	52
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Effect of slot height and slot-turbulence intensity on the effectiveness of the uniform density, two-dimensional wall jet, the (A)	N	77
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SMALL, K.		
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SMALLEY, A. J.		
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SMEATON, D. A.		
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SMITH, D. J. L.		
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SMITH, E. O.		
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SMITH, ELMER		
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SMITH, F. W.		
Some aspects of nonlinear behavior in lubricants under extreme stress (A)	Je	74
SMITH, F. W.		
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SMITH, HARRY V.		
Appointed manager of quality control for Owens-Corning Fiberglas Corp., Toledo, Ohio	Je	113
SMITH, HERBERT J.		
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SMITH, J. F. DOWNE		
Awarded honorary doctor of laws degree by Manhattan College, Bronx, N. Y.	Ja	121
SMITH, J. L., JR.		
Mathematical model for steady operation of Stirling-type engines, a (A)	F	78
SMITH, JAMES O.		
Elected ASME fellow	S	122
SMITH, LESTER W.		
Named by Purdue University to receive "distinguished engineering alumnus" title	S	121
SMITH, LOUIS G.		
Obituary	F	119
SMITH, M. C.		
Gas pressure drop of louvered-fin heat exchangers (A)	O	60
SMITH, MAYNARD E.		
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SMITH, R. L.		
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SNELLING, HENRY H.		
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SNIDER, A. D.		
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SNOW, F. O.		
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SNYDER, DAVID N.		
Promoted to manager of specialty products' section, U. S. Product Sales Division of Foxboro Co., Foxboro, Mass.	N	107
SNYDER, N. W.		
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Axisymmetric contact stresses about a smooth elastic sphere in an infinite solid stressed uniformly at infinity (A)	Ap	133	
Continuous stacking and reclaiming of bulk materials (A)	D	62	
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SOLING, SAM P.			
Elected ASME fellow	Jl	112	
SOMMER, WALTER F., JR.			
Joins staff of Los Alamos Scientific Laboratory, Los Alamos, N. M., to work in Test Division	N	107	
SONDERMAN, GERHARD E.			
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SONI, A. H.			
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Elected ASME fellow	D	109	
SORKA, WALTER W.			
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SPENCE, ROBERT A.			
Appointed to engineering staff of Massachusetts Port Authority, Boston, Mass	F	111	
SPENCER, R. C.			
ASME steam tables, the 1967	Mr	20	
SPENGERMAN, DONALD T.			
Named executive vice-president and general manager of Airco-BOC Cryogenic Plants Corp., Murray Hill, N. J.	F	111	
SPERRY AWARD, ELMER A.			
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SPERRY, S. M.			
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SPICET, C. L.			
Critical heat flux on a heater rod in the center of smooth and rough sleeves, and in line contact with an unheated wall (A)	Mr	75	
SPILLETT, ARTHUR G.			
Named research associate in Esso Production Research Company's Reservoir Behavior Division, Houston, Texas	N	107	
SPINNING			
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SPITZE, J.			
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SPOONER, S. H.			
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SPORN, PHILIP			
Awarded honorary doctor of engineering degree at Rensselaer Polytechnic Institute, Troy, N. Y.	O	109	
SPRIGGINGS, DONALD G.			
Appointed vice-president and general manager, Kellems Division of Harvey Hubbell, Inc., Bridgeport, Conn.	D	107	
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STACHIW, J. D.			
Critical pressure of flat acrylic windows under short-term hydrostatic loading (A)	F	66	
STACK GASES			
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STADE, WILLIAM J.			
Named manager of maintenance at Watson refinery of Atlantic Richfield Co., Philadelphia, Pa.	N	107	
STADER, JACK E.			
Fuel and repair facility at the Enrico Fermi atomic power plant (A)	Ja	71	
STAEBLER, C. J., JR.			
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STAHL, EDWARD C. M.			
Elected ASME fellow	S	122	
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Effects of surface discontinuities on fatigue properties of cast steel sections ..F	69	STERN, P.	
Electrode processes in the corrosion of steel by sulfate deposits (A) ..My	72	Hydrostatic creep of solid plastics (A) ..Ap	132
Experimental study of the relationship between oxygen partial pressure and friction for 52100 steel, an (A) ..Ap	125	STERNE, ROBERT H., Jr.	
Fatigue and burst analysis of Hy-140(T) steel pressure vessels (A) ..N	72	Named assistant to the manager of market development at Lukens Steel Co., Coatesville, Pa. ..O	109
Fatigue-crack growth-rate studies of low-alloy pressure vessel steels (A) ..D	74	STERNLICHT, B.	
Filtering characteristics of long, cylindrical steel bar having discontinuities in cross-sectional area (A) ..D	69	Gas-bearing turbomachinery (A) ..Ag	50
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Split, layered, cup-and-cone tensile fracture, the (A) ..F	60	Appointed project engineer of Tenny Engineering, Inc., Union, N. J. ..Mr	110
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Critical heat flux on a heater rod in the center of smooth and rough sleeves, an in line contact with an unheated wall (A) ..Mr	75	Receives ASME 50-year pin ..Ap	157
STEIGELMAN, HOWARD E.		STINSON, P. J.	
Appointed maintenance sales engineer by Combustion Engineering, Inc., Windsor, Conn. ..Mr	109	Theoretical model for enhancing transportation safety, a (A) ..F	70
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STORY, R. W.			
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STRICKLAND, W. B.			
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| STRODTMAN, C. L. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| STUNTZ, JOHN E. | | Obituary | Mr | Obituary | Mr | Receives ASME 65-year certificate | Je | Symons, J. D. | | SUBMARINES AND SUBMERSIBLES | | Shaft geometry—a major factor in oil seal performance (A) | Mr | Handling interface problems between electronic and machine components (A) | Je | Design of plastic structures for deep sea use (A) | Je | SYSTEMS DESIGN | | Design of pressure hulls for small submersibles (A) | F | Fuel-cell power plant for a deep-diving submarine, a (A) | F | Computer systems planning | Ag | Safety certification of mechanical components of small manned submersibles (A) | F | Distributed systems simulation with bilateral delay-line models (A) | Mr | SYSTEMS PLANNING | | Selection of power systems for advanced deep submersibles, the (A) | F | Scientific approach to systems planning, a (A) | Mr | Computer systems planning | Ag | Small sub, the: | | Distributed systems simulation with bilateral delay-line models (A) | Mr | Part 1—design challenges | Je | Scientific approach to systems planning, a (A) | Mr | Part 2—boon to industry? | Jl | Systems planning | Ag | Submersible safety, classification, certification, and the law (A) | F | Systems planning | Ag | 17 | Underwater "blimp" | F | Distributed systems simulation with bilateral delay-line models (A) | Mr | Distributed systems simulation with bilateral delay-line models (A) | Mr | Underwater go-cart | O | Scientific approach to systems planning, a (A) | Mr | Scientific approach to systems planning, a (A) | Mr | Uses of titanium in deep submergence vehicles (A) | Je | Systems planning | Ag | SUCTION | | Systems planning | Ag | Suction scheme applied to flow through sudden enlargement, a (A) | Jl | 17 | SUH, C. H. | | Distributed systems simulation with bilateral delay-line models (A) | Mr | On the duality in the existence of R-R links for three positions (A) | D | Scientific approach to systems planning, a (A) | Mr | SULLIVAN, MICHAEL F. | | Systems planning | Ag | Obituary | Ja | 17 | SUN, C. T. | | Distributed systems simulation with bilateral delay-line models (A) | Mr | Continuum theory for a laminated medium (A) | Ag | Scientific approach to systems planning, a (A) | Mr | SUN, CHANG-KUEI | | Systems planning | Ag | General properties of yield-point load surfaces (A) | Ap | 17 | SUNDERLAND, JAMES E. | | Distributed systems simulation with bilateral delay-line models (A) | Mr | Experimental investigation of heat transfer from a spray cooled isothermal cylinder, an (A) | O | Scientific approach to systems planning, a (A) | Mr | Heat and mass transfer mechanisms in sublimation dehydration (A) | F | Systems planning |
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| Receives ASME 65-year certificate | Je | Symons, J. D. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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Mr | SURVIVAL | | Systems planning | Ag | Survival capsule | Jl | 17 | SUSPENSION SYSTEMS | | Distributed systems simulation with bilateral delay-line models (A) | Mr | Suspension dynamics by computer simulation (A) | My | Scientific approach to systems planning, a (A) | Mr | SUZUKI, A. | | Systems planning | Ag | Gravity and vibration effects on flow of cohesive materials from hopper (A) | D | 17 | SVEREKA, EDWARD | | Distributed systems simulation with bilateral delay-line models (A) | Mr | Obituary | O | Scientific approach to systems planning, a (A) | Mr | SWANK, L. R. | | Systems planning | Ag | Heat transfer with film cooling near non-tangential injection slots (A) | F | 17 | SWANSON, CARL A. | | Distributed systems simulation with bilateral delay-line models (A) | Mr | Obituary | 0 | Scientific approach to systems planning, a (A) | Mr | SWEENEY, T. E. | | Systems planning | Ag | Air-cushion vehicles: their promise | My | 17 | SWEET, H. J. | | Distributed systems simulation with bilateral delay-line models (A) | Mr | Analysis of clamp-type separable fluid connectors for nuclear vessel applications (A) | D | Scientific approach to systems planning, a (A) | Mr | SWIMMING POOLS | | Systems planning | Ag | Solar pool heating (A) | My | 17 | SWITCHING | | Distributed systems simulation with bilateral delay-line models (A) | Mr | Experimental study of switching in a bistable fluid amplifier (A) | My | 17 | SWITZER, FREDERICK G. | | Scientific approach to systems planning, a (A) | Mr | Obituary | Mr | Systems planning | Ag | SYMONS, J. D. | | 17 | Shaft geometry—a major factor in oil seal performance (A) | Mr | Distributed systems simulation with bilateral delay-line models (A) | Mr | SYNPOSIA. <i>See</i> MEETINGS | | Scientific approach to systems planning, a (A) | Mr | SYSTEMS DESIGN | | Systems planning | Ag | Handling interface problems between electronic and machine components (A) | Je | 17 | SYSTEMS PLANNING | | Distributed systems simulation with bilateral delay-line models (A) | Mr | Computer systems planning | Ag | Scientific approach to systems planning, a (A) | Mr | Distributed systems simulation with bilateral delay-line models (A) | Mr | Systems planning | Ag | Scientific approach to systems planning, a (A) | Mr | 17 | SZOMANSKIN, EUGENIUSZ | | Distributed systems simulation with bilateral
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| Part 2—boon to industry? | Jl | Systems planning | Ag | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SUH, C. H. | | Distributed systems simulation with bilateral delay-line models (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| On the duality in the existence of R-R links for three positions (A) | D | Scientific approach to systems planning, a (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SULLIVAN, MICHAEL F. | | Systems planning | Ag | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SUN, C. T. | | Distributed systems simulation with bilateral delay-line models (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Continuum theory for a laminated medium (A) | Ag | Scientific approach to systems planning, a (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SUN, CHANG-KUEI | | Systems planning | Ag | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| General properties of yield-point load surfaces (A) | Ap | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SUNDERLAND, JAMES E. | | Distributed systems simulation with bilateral delay-line models (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Experimental investigation of heat transfer from a spray cooled isothermal cylinder, an (A) | O | Scientific approach to systems planning, a (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SURFACES | | Scientific approach to systems planning, a (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SUSPENSION SYSTEMS | | Distributed systems simulation with bilateral delay-line models (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Suspension dynamics by computer simulation (A) | My | Scientific approach to systems planning, a (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SVEREKA, EDWARD | | Distributed systems simulation with bilateral delay-line models (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Obituary | O | Scientific approach to systems planning, a (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SWANK, L. R. | | Systems planning | Ag | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Heat transfer with film cooling near non-tangential injection slots (A) | F | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SWANSON, CARL A. | | Distributed systems simulation with bilateral delay-line models (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Obituary | 0 | Scientific approach to systems planning, a (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SWEENEY, T. E. | | Systems planning | Ag | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SWEET, H. J. | | Distributed systems simulation with bilateral delay-line models (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Analysis of clamp-type separable fluid connectors for nuclear vessel applications (A) | D | Scientific approach to systems planning, a (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SWITCHING | | Distributed systems simulation with bilateral delay-line models (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SWITZER, FREDERICK G. | | Scientific approach to systems planning, a (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SYNPOSIA. <i>See</i> MEETINGS | | Scientific approach to systems planning, a (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Computer systems planning | Ag | Scientific approach to systems planning, a (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Distributed systems simulation with bilateral delay-line models (A) | Mr | Systems planning | Ag | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Scientific approach to systems planning, a (A) | Mr | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Named principal, Gordon Institute of Technology, Geelong, Victoria, Australia | Jl | Scientific approach to systems planning, a (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| TAGART, S. W., JR. | | Scientific approach to systems planning, a (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Plastic fatigue analysis of pressure components (A) | O | Systems planning | Ag | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Forced cooling of a slider bearing with wedge film (A) | Ja | Distributed systems simulation with bilateral delay-line models (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| TAKAHASHI, Y. | | Scientific approach to systems planning, a (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Mode-oriented design viewpoint for linear lumped-parameter multivariable control systems (A) | F | Systems planning | Ag | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| TAKAYANAGI, ITARU | | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| On the slip factor of centrifugal and mixed-flow impellers (A) | F | Distributed systems simulation with bilateral delay-line models (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| TAKEYAMA, H. | | Scientific approach to systems planning, a (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Basic investigation of built-up edge (A) | Ap | Systems planning | Ag | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| TANAKA, T. | | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Gravity and vibration effects on flow of cohesive materials from hopper (A) | D | Distributed systems simulation with bilateral delay-line models (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| TANG, SING-CHIH | | Scientific approach to systems planning, a (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Stress analysis of shells of revolution under arbitrary loading (A) | My | Systems planning | Ag | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| TANG, T. M. | | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Dynamics of synchronous-precessing turbines with particular reference to balancing: part 2—application (A) | Ap | Distributed systems simulation with bilateral delay-line models (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| TANKS | | Scientific approach to systems planning, a (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Stability of a simple surge tank, the (A) | Ap | Systems planning | Ag | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| TANKS, FUEL | | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| TANKS, STORAGE. <i>See also</i> PLASTICS | | Scientific approach to systems planning, a (A) | Mr | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Cryogenic customer stations (A) | Ja | Systems planning | Ag | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Four-bar linkage design: three useful techniques | D | Systems planning | Ag | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ASME publications | Ja 83; My 96; S 103; O 89 | Reducing smoke from gas turbines | Jl | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Book reviews | Ja 83; Mr 92; My 96; Je 95; Jl 89; S 103; O 89; D 89 | TAYLOR, W. G. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| New periodicals and publications | Ja 83; Mr 92; My 96; Je 95; Jl 89; S 103; D 89 | Reducing smoke from gas turbines | Jl | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Art and science: two worlds merge | Mr | Reducing smoke from gas turbines | Jl | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| BR (by Martin Goland) of "Technology in Western Civilization: vol. I—The Emergence of Modern Technological Society—Earliest Times to 1900: vol. II—Technology in the Twentieth Century" by Melvin Kranzberg and C. W. Pursell | N | TAYLOR, W. G. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Scan rate converter | Jl | TAYLOR, W. G. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| TEMPERATURE | | Reducing smoke from gas turbines | Jl | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Deep ice probe | My | TAYLOR, W. G. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Effects of lubricants, metals, temperature, and atmospheric environments on gear load-carrying capacity (A) | Ja | Reducing smoke from gas turbines | Jl | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Evaluation of lubricants for high-temperature ball bearing applications (A) | Ja | TAYLOR, W. G. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Fluid properties in high-temperature fields by hot-wire anemometry techniques (A) | F | Reducing smoke from gas turbines | Jl | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Fluidic technique for measuring the average temperature in a gas turbine exhaust duct, a (A) | Je | TAYLOR, W. G. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Heat transfer by free convection from a horizontal wire to carbon dioxide in the critical region (A) | Ja | Reducing smoke from gas turbines | Jl | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| High-temperature thermal conductivity of rare gases and gas mixtures (A) | Ja | TAYLOR, W. G. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Influence of notches on mechanical behavior at elevated temperatures, the: some metallographic observations (A) | F | Reducing smoke from gas turbines | Jl | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Low-temperature thermometry | My | TAYLOR, W. G. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Measurement of temperatures associated with bubbles in subcooled pool boiling (A) | N | Reducing smoke from gas turbines | Jl | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Method for solution of lubrication problems with temperature and elasticity effects: application to sector, tilting-pad bearings (A) | D | TAYLOR, W. G. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Role of high-temperature gas turbines in power generation, the (A) | My | Reducing smoke from gas turbines | Jl | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Semicrystalline ceramic coatings for use in high-temperature environments (A) | Je | TAYLOR, W. G. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Study of the temperature profiles measured in the thermal sublayer of water, Freon-113, and methyl alcohol during pool boiling, a (A) | O | Reducing smoke from gas turbines | Jl | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Temperature rise and stresses due to internal heating (A) | O | TAYLOR, W. G. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Temperatures in the shear zone in metal cutting (A) | Ap | Reducing smoke from gas turbines | Jl | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| TEMPEST, M. C. | | TAYLOR, W. G. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| TENSION | | TAYLOR, W. G. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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TRAFFIC SAFETY. <i>See</i> SAFETY			
TRAINING			
Challenge in recruiting and training minorities, the (A)	Je	69	
Practical training program for maintenance craftsmen (A)	Jl	71	
Today technical training is not enough!D 18; (A)	Jl	70	
TRAINS			
Automated railway	S	70	
Braking high-speed freight trains and effects on railroad capacity (A)	My	73	
Evaluation of freight-car cushioning devices through simulation of train dynamics (A)	My	73	
Progress in railway mechanical engineering	My	29	
Studying curved beams	Je	93	
TRAMPOSCH, H.			
Anisotropic relaxation of internal forces in a wound reel of magnetic tape (A)	Ap	133	
TRANSDUCERS			
Shaft alignment using proximity transducers (A)	N	75	
TRANSISTORS			
Transistor, the: 20 years later	Ap	116	
TRANSIT SYSTEMS			
Evaluation of an automated mass transit system (Westinghouse Transit Expressway, Skybus) an (A)	F	71	
Future urban highway mass-transit system utilizing private passenger vehicles—a concept (A)	Ja	69	
Garbled blurb (C)—errata	F	80	
Ride response of a pneumatic-tired rapid-transit vehicle riding on a cambered-beam roadbed, an analysis of the (A)	Ja	69	
We goofed (C)	Mr	82	
TRANSMISSIONS			
Structural synthesis of planetary mechanisms used in automatic transmissions (A)	N	69	
Torque transmission through Bennett mechanism (A)	N	67	
TRANSPORT. <i>See also</i> VEHICLES, GROUND-TRANSPORT; VEHICLES, TRANSPORT			
Subsonic transport aircraft engine noise (A)	Je	78	
TRANSPORTATION. <i>See also</i> AERODYNAMICS; AIRCRAFT; ENGINES, GAS-TURBINE; FLUIDICS; HELICOPTERS; HIGHWAY SYSTEMS; RAILROADS; ROTORS; TRANSIT SYSTEMS; UNITED STATES TRANSPORTATION DEPARTMENT; VEHICLES, GROUND-TRANSPORT; VEHICLES, TRANSPORT			
Application of a gas turbine to large off-highway vehicles (A)	Ja	69	
Automatic highway, the	Jl 18; (C)	S 87; D	75
Bulb liquid helium distribution system—some design considerations (A)	Ja	67	
Civil aviation: its growth and problems; NAE lists urgently needed research—on airports, noise, and traffic control	N	87	

TRANSPORTATION (Continued)

Dynamics of fluid-suspended ground transport vehicles, the: a first-order analysis (A)	Ja	68	Elastic stability of circular tubes of circumferentially variable thickness under external pressure (A)	D	68	Dust erosion of compressor materials—experience and prospects (A)	Je	76
Effect of design changes in railway catenary-pantograph systems on power collection at high speed (A)	My	71	Glass-lined pipe for the petroleum industry (A)	N	74	Emulsified fuel for aircraft (A)	D	76
Electric town car	Ja	85	High-speed ground transportation tube vehicle concepts (A)	My	73	Emulsified gas turbine fuel (A)	Je	78
Flying platform	D	56	Influence of fabrication on reliability of high-temperature superheater tubes (A)	N	73	Film cooling with injection through holes: adiabatic wall temperatures downstream of a circular hole (A)	My	71
Foresight needed (C)	N	81	In-plane bending of curved circular tubes (A)	D	74	Fire detection techniques for supersonic aircraft (A)	Je	80
Future urban highway mass-transit system utilizing private passenger vehicles—a concept (A)	Ja	69	Internally finned tubes—a design tool to improve condenser performance (A)	Mr	77	Fluidic technique for measuring the average temperature in a gas turbine exhaust duct, a (A)	Je	75
Garbled blurb (C)—errata	F	80	Metal tube reducer	Mr	56	From millivolts to megawatts—control of large gas turbines (A)	Je	80
High-speed ground transportation tube vehicle concepts (A)	Ja	73	NDT: nondestructive testing of tubes	My	32	Gas turbine blade cooling—retrospect and prospect (A)	F	77
Highway safety research information center, the (A)	F	70	On-stream cleaning of heat-exchanger tubes—fouling prevented by regular brushing (A)	D	68	Gas turbine for total energy	Ap	92
Humanized transportation	Mr	89	Separable tube connector and specialized seal generated by computer-aided design technique, a (A)	Jl	74	Gas turbines versus steam reliability analysis for a warship propulsion plant (A)	My	68
Multirotor application in VTOL aircraft (A)	Ja	69	Some resonance tube experiments (A)	Ag	54	General design considerations for gas turbine waste heat steam generators (A)	Je	80
Olympus engine for the Concorde	N	37	Stainless steel plumbing	Je	60	Heat transfer with film cooling near non-tangential injection slots (A)	F	76
"People mover"	Jl	52	Tube-to-tubesheet attachment welds (A)	0	74	Heat-exchanger optimization for a regenerative small-gas-turbine cycle (A)	Je	78
Railway overhead contact systems, catenary-pantograph dynamics for power collection at high speed (A)	My	71	Tube-to-tubesheet attachment welds (A)	Ja	68	High-speed cascade testing and its application to axial flow supersonic compressors (A)	Je	76
Reversible streets, etc.	My	90	TULL, H. G., III		69	Hydromechanical fuel control for portable gas turbine generator sets (A)	My	70
Ride response of a pneumatic-tired rapid-transit vehicle riding on a cambered-beam roadbed, an analysis of the (A)	Ja	90	Three-dimensional kinematic synthesis (A)	Ja	70	Influence of chemical inhibitor addition on reverse-jet flame stabilization, the (A)	My	70
Road roughness and passenger comfort for wheeled vehicles (A)	Ja	69	TULLY, R. F.		71	Jet-flap in centrifugal turbomachines, the (A)	Je	80
Theoretical model for enhancing transportation safety, a (A)	F	69	Project planning and control (A)	Jl	71	Jets, props and air cushions—propulsion technology and surface effect ships (A)	Je	79
300-mph magnetically suspended train, a (C) (D) (AC)	Mr	83	TUNNELS		72	Manufacture of turbine blade airfoil contours by electrochemical machining, the (A)	Je	77
Wanted: better electric cars	Ja	85	High-speed ground transportation tube vehicle concepts (A)	My	73	Metallurgical development for added reliability of industrial gas turbine rotating blades (A)	Je	76
We goofed (C)	Mr	82	Rock tunneling with high-speed water jets utilizing cavitation damage (A)	S	82	Novel low cost diffuser for high performance centrifugal compressors, a (A)	My	71
TRANSURANIUM		53	Tunneling machines	My	66	Oblique flow headers for heat exchangers (A)	My	68
New transuranium isotopes	Je	53	TURBINES		72	Offset rectangular plate-fin surfaces—heat transfer and flow friction characteristics (A)	Je	76
TRASK, R. P., II		53	Auxiliary turbine drives for nuclear applications (A)	Ja	70	On the slip factor of centrifugal and mixed-flow impellers (A)	F	76
Application of fluidics to low power logic circuits, the (A)	Jl	74	Electricity from coal: the cycles part 2	D	44	Optimum application of austenitic nodular iron for gas turbine components, an (A)	Je	80
TRAUTMAN, WILLIAM R.		112	Formation of a shock wave in the blade passage of a partial admission turbine, the (A)	Ag	55	Peaking capacity for Pennsylvania Power & Light Company (A)	Je	80
Electred president of New York State Society of Professional Engineers, Inc., New York, N. Y.	Jl	112	Investigation of axial turbine stage (A)	Jl	72	Performance and potential of perforated plates as a heat transfer surface (A)	Je	76
TRUE, CHARLES HENDERSON		133	Scheduling and planning boiler and turbine overhau work (A)	Jl	68	Photographic study of the three-dimensional flow in a radial compressor, a (A)	My	69
Obituary	Ag	103	TURBINES, GAS. <i>See also</i> ENGINES, GAS TURBINE		77	Problems and solutions for sand environment operation of helicopter gas turbines (A)	My	70
Receives ASME 55-year certificate	Ap	157	Aeroelastic instability in labyrinth seals (A)	Je	77	Qualification of gas turbine engines for U. S. Navy shipboard use (A)	My	68
TRUMBLE, T. M.		80	Application of controlled-vortex aerodynamics to advanced axial flow turbines, the (A)	My	68	Proposed ASTM specifications for gas-turbine fuel oils (A)	N	71
Fire detection techniques for supersonic aircraft (A)	Je	80	Application of end-wall boundary-layer effects in the performance analysis of axial compressors, the (A)	F	77	Rapid method for predicting the off-design performance of radial-inflow turbines, a (A)	F	76
TRUMPLER, P. R.		133	Axial cascade technology and application to flow path designs: part I—axial cascade technology (A); part II—application of data to flow path designs (A)	My	68	Reducing smoke from gas turbines	Jl	29
Dynamics of synchronous-precessing turborotors with particular reference to balancing: part 2—application (A)	Ap	133	Axial turbine performance evaluation: Part A—loss-geometry relationships (A)	Je	75	Reynolds number effects in axial compressors (A)	F	76
TRUMPLER, WILLIAM E., JR.		124	Part B—optimization with and without constraints (A)	Je	75	Role of high temperature gas turbines in power generation, the (A)	My	71
Electred ASME fellow	Ja	124	Ballistic air cleaner concept for Army vehicular gas turbines, the (A)	Je	78	Self-generating Brayton cycle performance model (A)	Je	77
High-temperature properties of $1\frac{1}{2}$ Cr- $\frac{1}{2}$ Mo steel castings (A)	F	69	Smoke and gas turbines (C)	S	85			
TSO, W. K.		78	Correlation of end wall losses in plane compressor cascades, a (A)	Je	77	Smoke in gas turbine exhaust (A)	F	76
Parametric torsional stability of a bar under axial excitation (A)	S	78	Danish CODOG frigates operational progress report (A)	Je	79	Some operating experiences with gas turbines approaching the maximum limits of the proposed ASTM No. 3 fuel specification (A)	My	69
TSU, T. C.		80	Design of one-piece jet-engine compressor end seals (A)	S	75	Spey combustion-development for military applications (A)	My	71
Errors crept in (C)—errata	F	80	Development of inlet for an axial compressor (A)	My	70	Three-dimensional calculation of flow in turbomachines with the aid of singularities (A)	Je	76
TSUKIZOE, T.		73	Distribution and stability of flow in a rotating channel, the (A)	My	68	2000-hp military vehicle gas turbine, a—a study of significant thermodynamic and mechanical parameters (A)	Je	77
On the mechanism of contact between metal surfaces: part 2—the real area and the number of the contact points (A)	Ja	73	Examination of axial-flow turbine blade-loading characteristics using diffusion parameters (A)	F	76	Two years' experience of a gas turbine firing residual fuel (A)	Je	77
TUBA, I. S.		121						
Elastic-plastic stress and strain distributions near crack tips due to antiplane shear (A)	My	75						
Named "outstanding engineer of year" by Pittsburgh Section of ASME	S	75						
TUBES AND TUBING. <i>See also</i> PRESSURE TUBES		126						
Analysis and calibration of the five-hole spherical pitot, the (A)	Ap	126						
Analysis of heat transfer from a square fin on a tube (A)	O	72						
Behavior of free laminar jets leaving Poiseuille tubes (A)	Jl	72						
Consideration in design of tube-to-tubesheet joints in high-temperature heat-exchange equipment (A)	N	73						
Copper-iron-phosphorus alloy for condenser and other heat-exchanger tube applications, a (A)	Mr	77						
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Effect of water chemistry and design on corrosion of carbon steel tubed feed-water heaters (A)	N	70						

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Use of flame sprayed coatings for reduction of initial and subsequent repair costs of gas turbines and components (A)	76	Je	
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TURBINES, HYDRAULIC			
Editorial summary of discussions of Ronald E. Passmore's paper entitled "The Economics of Hydraulic Turbine Selection" (A)	79	My	
TURBINES, STEAM			
Gas turbines versus steam reliability analysis for a warship propulsion plant (A)	79	My	
Nonsteady flow in the turbine, recent work and thinking (A)	79	Ag	
Operation of large steam turbines to limit cyclic thermal cracking, the (A)	79	F	
Performance testing of 580-mw Joliet units No. 7 and 8 (A)	79	Ja	
Thermodynamic and economic analyses of closed feedwater heaters for supercritical pressure steam turbine cycles (A)	79	F	
Turbine-generator for U. S.	79	My	
TURBOMCOMPRESSORS			
Pivoted-pad journal gas bearing performance in exploratory operation of Brayton cycle turbocompressor (A)	79	S	
TURBOMACHINERY			
Blade oscillations in one-stage axial turbomachinery (A)	79	Ag	
Development of high-pressure high-flow turbocharger for tomorrow's high-output diesel and spark-fired engines (A)	79	Ja	
Gas-bearing turbomachinery (A)	79	Ag	
Influence of sidewall friction on the flow in multistage axial-flow turbomachines (A)	79	Ag	
New family of compact Cummins turbocompressor (A)	79	Ja	
TURK, JAMES			
300-mph magnetically suspended train, a (C) (D) (AC)	83	Mr	
TYLER, MICHAEL N.			
Receives 1967-68 grant from Sylvia W. Farny scholarship fund of ASME Woman's Auxiliary	116	Ja	
TYPEWRITER			
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U			
UCKER, GEORGE B.			
Elected ASME fellow	159	Ap	
UCKER, J. J., JR.			
Dynamic behavior of spatial linkages—part 1: exact equations of motion (A)	70	D	
ULMER, R. C.			
Study of means for eliminating corrosiveness of coal to high-temperature surfaces of steam generating units—2 (A)	72	My	
ULTRASONICS			
Measurement of cavitation intensity in ultrasonic cleaners, and a suggestion for a cavitation intensity standard, the (A)	128	Ap	
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UNDERWATER EQUIPMENT			
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Safety certification of mechanical components of small manned submersibles (A)	68	F	
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UNDERWATER RESEARCH			
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Some engineering aspects of a scientific undersea laboratory (A)	67	F	
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UNDERWATER STRUCTURES			
Inherent scatter of wave forces on submerged structures (A)	75	N	
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UNDERWATER TECHNOLOGY. <i>See also</i> UNDERWATER EQUIPMENT; UNDERWATER RESEARCH			
Critical pressure of flat acrylic windows under short-term hydrostatic loading (A)	66	F	
Cryogenic storage systems for marine operations (A)	68	F	
Design of pressure hulls for small submersibles (A)	66	F	
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Selection of power systems for advanced deep submersibles, the (A)	66	F	
Tools for deep-diving operations (A)	66	F	
Tools for the scientific diver	22	My	
Underwater "blimp"	59	F	
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UNGAR, ERIC E.			
Appointed manager of Engineering Systems Department of Bolt, Beranek, and Newman, Inc., Cambridge, Mass.	115	My	
UNIDENTIFIED FLYING OBJECTS (UFO)			
BR (by Will Ourster) of "Challenge to Science" by Jacques and Janine Vallee	78	Ja	
UNITED NATIONS			
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Educational, Scientific and Cultural Organization			
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U. S. science policy—past and present: UNESCO releases NSF report as worldwide information document	82	D	
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UYEHARA, O. A.			
Experimental correlation between rate-of-injection and rate-of-heat-release in a diesel engine (A)	65	Ja	
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VACHON, R. I.			
Bubble trajectories and equilibrium levels in vibrated liquid columns (A)	55	Ag	
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Lubrication techniques for use in vacuum (A)	70	Je	
Test of molybdenum disulfide lubricants in radiation and vacuum environments, a (A)	65	D	
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VAIL, ROBERT S.			
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Evaluation of surface-controlled subsurface safety valves (A)	74	N	
Fluidic power amplifiers for valving systems (A)	69	Je	
Pneumatic valve control (A)	67	Ja	
Vortex valve operation in a vacuum environment (A)	54	Ag	
VANCE, CARL B.			
Elected ASME fellow	108	N	
VANCO, MICHAEL R.			
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VAN DELL, HARVEY G.			
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VAN DEVEN, D. E.			
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VAN ECHO, J. A.			
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VAN NEST, A. L.			
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VAN ORDEN, J. M.			
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VAN PATTER, HUGH S.			
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VAN RIPER, FRANCIS H.			
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VAN ROOYEN, D.			
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Integral-method solution of laminar condensation with shear in stagnant vapor (A)	70	O	
VAPOR DEPOSITION			
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VARGA, GEORGE F.			
Obituary	113	N	
VAUGHAN, H.			
Dynamic plastic buckling of sandwich shells (A)	77	S	
VAUGHN, G. J.			
Stress concentration factors in shouldered shafts subjected to combination of flexure and torsion (A)	68	Ja	
VAVRA, M. H.			
Investigation of axial turbine stage (A)	72	Ja	
VEHICLE SUSPENSION			
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300-mph magnetically suspended train, a (C) (D) (AC)	83	Mr	

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VEHICLES, AMPHIBIOUS		
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VEHICLES, GROUND-TRANSPORT		
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Future urban highway mass-transit system utilizing private passenger vehicles—a concept (A)	Ja	65
High-speed ground transportation tube vehicle concepts (A)	My	
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Ride response of a pneumatic-tired rapid-transit vehicle riding on a cambered-beam roadbed, an analysis of the (A)	Ja	
Road roughness and passenger comfort for wheeled vehicles (A)	Ja	
VEHICLES, MILITARY		
Ballistic air cleaner concept for Army vehicular gas turbines, the (A)	Je	
Emulsified fuel for military aircraft	D	26
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2000-hp military vehicle gas turbine, a—a study of significant thermodynamic and mechanical parameters (A)	Je	
VEHICLES, MOTOR. <i>See also, AUTOMOBILES; ELECTRIC; SAFETY; HIGHWAY; TRANSPORTATION</i>		
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Modeling approach to motor vehicle inspection, a (A)	F	
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VEHICLES, SPACE		
Big dish for Venus, a	Ja	
Kinematic space requirement and efficiency of coupled planetary gear systems (A)	N	
Satellites and vehicles assembled in space (A)	Je	
Structural synthesis of planetary mechanisms used in automatic transmissions (A)	N	
VEHICLES, UNDERWATER		
Design of plastic structures for deep sea use (A)	Je	
Uses of titanium in deep submergence vehicles (A)	Je	
VEHICLES, TRANSPORT		
Application of a gas turbine to large off-highway vehicles (A)	Ja	
VELDKAMP, G. R.		
Acceleration axes and acceleration distribution in spatial motion (A)	D	
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VELOCITY		
Effects of surface cooling and heating on structure of low-speed, laminar boundary-layer gas flows with constant free-stream velocity (A)	O	
Four-bar linkage adjustable for constant angular velocity ratios (A)	N	
Gas content, size, temperature, and velocity effects on cavitation inception in a Venturi (A)	Ap	
Radial flow velocity field for predicting upper-bound solutions for plane strain extrusion (A)	F	
Recent research in hypervelocity impact rock disintegration (A)	Ag	
Vapor-liquid separation at supersonic velocities (A)	D	
Velocity distributions in two-phase vortex flow (A)	Jl	
VELTROP, JAN A.		
Appointed associate of Harza Engineering Co., Chicago, Ill.	Ag	
VENNETT, R. M.		
Rosette, star, tensile fracture, the (A)	F	68
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Vent effects on the response of a proportional fluid amplifier (A)	Ap	127
VENTURIS		
Gas content, size, temperature, and velocity effects on cavitation inception in a Venturi (A)	Ap	
VERGE, WILLIAM J.		
Joines Hillyer Corp., Mountainside, N. J., as director of marketing	D	
VESSELS, NAVAL		
Cost-effectiveness evaluation of thermal insulation in naval vessels (A)	Mr	
VESSELS, OCEANOISING		
Danish CODOG frigates operational progress report (A)	Je	
Gas turbines versus steam reliability analysis for a warship propulsion plant (A)	My	
Qualification of gas turbine engines for U. S. Navy shipboard use (A)	My	68
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VEVURKA, WILLIAM E.		
Obituary	Ja	127
VIBRATION		
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VICKERS, HARRY J.		
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VIDOSIC, JOSEPH P.		
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Elected ASME fellow	My	117
VIESSMAN, WARREN		
Retires from Air Force Systems Command, Washington, D. C., completing 33 years in federal service	Jl	111
VINCENT, GILBERT I.		
Receives ASME 55-year certificate	Ap	157
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VISCOSITY		
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VISHNEVSKY, C.		
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VISKANTA, R.		
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VOLK, J. F.		
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VOLK, R. L.		
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Adaptive control for prime movers (A)	F	74
VORTEXES		
Application of controlled-vortex aerodynamics to advanced axial flow turbines, the (A)	My	68
Experimental investigation of the formation and flow characteristics of an impulsively generated vortex street, an (A)	S	82
Potential vortex flow adjacent to a stationary surface (A)	Ag	57
Unsteady lift forces generated by vortex shedding about a large, stationary, and oscillating cylinder at high Reynolds numbers (A)	Ag	53
Vortex valve operation in a vacuum environment (A)	Ag	54
VORTICITY		
Vorticity transfer and production in steady inviscid flow (A)	Ap	126
W		
WACHNIK, Z. G.		
Jets, props and air cushions—propulsion technology and surface effect ships (A)	Je	79
WADE, P. A.		
Modern approach to acceptance testing of gas compressors (A)	N	76
Precision-balanced pressure indicator for a compressor and data-reduction technique for the acceptance test (A)	Jl	65
WADHWA, S. K.		
Analytical determination of geometry factor for shaped spur gears (A)	D	73
WAGNER, R. E.		
Development of a three-mode control using high-gain fluid amplifiers (A)	My	76
WAGONER, C. L.		
Burning profiles for solid fuels (A)	F	77
WAKE FLOW		
Boundary effects in wake flow (A)	S	77
WAKELAND, HENRY H.		
Appointed director of National Transportation Safety Board, Department of Transportation Washington, D. C.	Je	113
WALENT, NORBERT A.		
Promoted to newly created position of industrial engineering supervisor for Chicago Aerial Industries, Inc., Barrington, Ill.	Mr	109
WALKER, ALAN B.		
Named director of research and development of Research Cottrell, Inc., Bound Brook, N. J.	Jl	111
WALKER, B. J.		
"Density effect" model, the: prediction and verification of the flow oscillation threshold in a natural-circulation loop operating near the critical point (A)	F	72
WALKER, EMERY L.		
Obituary	F	113
WALKER, FREDERICK W.		
Receives ASME 70-year certificate	Ap	157
WALKER, TERRY		
Lubrication of aircraft instrument bearings and gears, the (A)	Ap	125
WALKER, W. F.		
Numerical solution for the interaction of a moving shock wave with a turbulent mixing region (A)	S	77
Recent advances in laboratory instruction (A)	D	69
WALL, F. J.		
Metalurgical development for added reliability of industrial gas turbine rotating blades (A)	Je	
WALLACE, J. F.		
Effects of surface discontinuities on fatigue properties of cast steel sections (A)	F	69
Fractographic studies of fatigue in cast steel, (A)	F	70
Study of the notch effect and of specimen design and loading on the fatigue properties of cast steel, a (A)	My	75
WALLACE, T. J.		
Emulsified fuel for aircraft	D	26; (A)
WALLACH, J.		
Calculation of leakage between metallic sealing surfaces (A)	D	65
WALLER, C. R.		
Receives ASME 55-year certificate	Ap	157
WALLERSTEIN, L., JR.		
New approach to vibration isolation for low frequency sources, a (A)	Je	72

WALLS	
Effect of container capacitance on thermal transients in plane walls, cylinders, and spheres (A)	68
Heat transfer from the wall of a porous solid involving gas injection and vaporization (A)	69
Laminar flow between a rotating disk and a parallel stationary wall with and without radial inflow (A)	52
WALOWITZ, J. A.	
Microasperity lubrication (A)	Mr 70
WALSH, E. K.	
Induced one-dimensional waves in elastic nonconductors (A)	Ap 131
WALTERS, SAMUEL	
Engineering for pure water: part 4—reverse osmosis	Ap 104
WALTERS, W. T.	
Multiply separated position synthesis—part 2: function generation (A)	N 67
WALTON, CHARLES F.	
Heat-treatment of iron castings, the (A)	F 69
WALTON, EDWARD H.	
Becomes vice-president of professional affairs policy board	N 101
WAN, F. Y. M.	
Pure bending of shallow helicoidal shells (A)	Ag 57
WAND, STANLEY, W.	
Promoted to vice-president of manufacturing, Slant/Fin Corp., Greenville, N. Y.	Mr D
WANDRISCO, J. M.	
Effect of design variation on service stresses in railroad wheels (A)	My 73
WANG, C. F.	
Elastic contact of a strip pressed between two cylinders (A)	S 79
WANG, J. T.	
Interaction of a sloshing liquid with elastic containers (A)	Ag 52
WANG, K. K.	
Temperature responses and experimental errors for multitooth milling cutter (A)	Ja 63
WARE, JAMES R.	
Takes charge of gas-development section, Electro-Motive Division, General Motors, La Grange, Ill.	Je 113
WARREN, GLENN B.	
Named honorary member	Ja 98
WASP, E. J.	
Coal pipelines—a reappraisal (A)	N 71
WASSELL, A. B.	
Reynolds number effects in axial compressors (A)	F 76
WASTE DISPOSAL	
Burning all industrial wastes in a central facility (A)	Jl 68
Deep-down waste disposal	Ag 28
Heat value of refuse, the	S 47; (C) (D) (AC) 77
House eater	N 54
Incinerators and the public	D 38
Not far enough down (C)	N 81
Potential energy-conversion aspects of refuse (A)	Ja 67
Towards a profitable means of municipal refuse disposal (A)	Ja 77
What irony! (C)	O 76
WATANABE, ICHIRO	
On the slip of centrifugal and mixed-flow impellers (A)	F 76
WATER	
Effect of water chemistry and design on corrosion of carbon steel tubed feedwater heaters (A)	N 70
Influence of water on fatigue-failure location and surface alteration during rolling-contact lubrication (A)	D 67
Transient film boiling of water on a horizontal wire (A)	O 67
Water, water	Ap 143
Water purifier	S 66
WATER DESALINATION	
Cheaper freshwater	Mr 66
Desalination project	Jl 63
Desalting plant	Ja 60
Engineering for pure water	
Part 1: distillation	Ja 18
Part 2: freezing	F 42
Part 3: electrodialysis	Mr 47
Part 4: reverse osmosis	Ap 104
Engineering for pure water (Ed)	Ja 17
580,000-gpd desalination plant	Je 63
Largest dual plant	F 95
Molecular sieve	Je 51
Number 14 (C)	My 80
Reservoir in the sky	F 61
WEINBERG, S. L.	
Use of hydrogen bubble technique in observing unsteady boundary layers (A)	Ag 53
WEIR, FREDERICK U.	
Almost no protection	O 76
WEISS, LOUIS T.	
Receives ASME 55-year certificate	Ap 157
WEISSENBURGER, J. T.	
Effect of local modifications on the vibration characteristics of linear systems (A)	S 81
WELDING	
Improved torch for refractory metals	S 58
Quality factors related to electric-resistance welded pipe (A)	N 75
Tube-to-tubesheet attachment welds (A)	O 74
WELDON, RICHARD L.	
Obituary	Je 119
WELLS, C. H.	
Analysis of the Bauschinger effect in some engineering alloys, an (A)	F 68
WELLS, ROBERT L.	
Elected ASME fellow	My 118
WELNA, H.	
Application of controlled-vortex aerodynamics to advanced axial flow turbines, the (A)	My 68
WELSH, JOHN N.	
Elected ASME fellow	Ap 159
WENDLEN, DONALD E.	
Appointed technologist, Monsanto Co., Miamisburg, Ohio	D 107
WENNERG, J. L.	
Manufacture of turbine blade airfoil contours by electrochemical machining, the (A)	Je 77
WENZEL, A. H.	
Critical heat flux on a heater rod in the center of smooth and rough sleeves, and in line contact with an unheated wall (A)	Mr 75
WENZEL, ALFRED C.	
Becomes systems department manager for Republic Operations (Chicago, Ill.), Process Instruments Division of Beckman Instruments, Inc.	Ja 121
WESNER, JOHN W., JR.	
Design of a shipping container for the new generation of nuclear power reactor fuel assemblies (A)	Ja 70
WESSELL, N. Y.	
Research and education: conflict or harmony?	
Dual opportunities, the	My 20
WESSTROM, DAVID B.	
J. Hall Taylor medal	Ja 100
WETZEL, KARL H.	
Obituary	Ap 161
WETZEL, THEODORE A.	
Obituary	O 113
WEYL, ERIC	
Obituary	Ag 103
WHEELS	
Shock-absorbing caster wheel	D 50
World on wheels	Je 64
WHISTLER, ARTHUR M.	
Elected ASME fellow	Ja 124
WHITAKER, ROBERT L.	
Appointed superintendent of Quaker Oats Co., St. Joseph, Mo.	Ag 99
WHITEHEAD, Ross	
Obituary	Mr 113
WHITELAW, J. H.	
Effect of slot height and slot-turbulence intensity on the effectiveness of the uniform density, two-dimensional wall jet, the (A)	N 77
WHITING, GLEN H.	
Applications of the heat pipe	N 48
WHITING, HAROLD W.	
Appointed a divisional consulting engineer, Compressor and Engine Division, Worthington Corp., Harrison, N. J.	O 109
WHITTIER, J. S.	
Waves at a flexibly bonded interface (A)	Ap 134
WIDNER, R. L.	
Role of lubrication in propagation of contact fatigue cracks, the (A)	Ja 74
WIEDERSUM, GEORGE C.	
Corrosion and deposits from combustion gases: a review	Ag 22
WIEDMANN, ERNST	
Wins 1967 achievement award from National Fluid Power Association	F 111
WIGHTMAN, FRANK A.	
Obituary	Je 119

WILCOCK, D. F.				
Behavior of hydrostatic and hydrodynamic noncontacting face seals (A)	Ap	124		
Design of floated shoe close clearance seals for supersonic jet engine compressors (A)	Ap	125		
Design of one-piece jet-engine compressor end seals (A)	S	75		
Externally pressurized bearings II. Vibration attenuators (A)	Ap	124		
WILCOX, CARL C.	Obituary	Ag	103	
WILDER, A. B.	Quality factors related to electric-resistance welded pipe (A)	N	75	
WILDHABER, ERNEST	Machiné design award	Ja		
WILDMANN, M.	Axysymmetric, perfectly flexible foil bearing with porous inlet restrictor, the (A)	Ja		
WILHOIT, J. C., JR.	Dynamic behavior of a foil in the presence of a lubricating film (A)	Ag	73	
Foil bearings (A)	O	73		
WILKIE, CARL W.	Current-induced bending moments in laying offshore pipeline (A)	D	68	
WILKES, D. F.	Part 1—nature of the device	Ap	11	
Part 2—engineering	Ap	12		
Part 3—applications	Ap	16		
Part 4—hardware	Ap	20		
WILLIAMS, A. W.	Rolamite, a new mechanism	Ap	28	
Critical assembly machine for plutonium experiments (A)	Ja	70		
WILLIAMS, H. A., JR.	Look at modern two-cycle diesel engine, a (A)	Ja	66	
WILLIAMS, J. C., JR.	Promoted to senior vice-president of Sanders & Thomas Inc., Pottstown, Pa.	O		
WILLIAMS, R.	Computerized determination and analysis of cost and production rates for machining operations: part 1—turning (A)	Ja	109	
WILLIAMS, ROBERT E., JR.	Appointed assistant to manager of newly formed southeastern public power zone of Westinghouse Electric Corp., Pittsburgh, Pa.	D	62	
WILLIAMS, ROBERT J.	Appointed district manager, Chicago Sales Office, Riley Stoker Corp., Worcester Mass.	D	107	
WILLIAMS, T. CORTLANDT	Elected ASME fellow	Ag	101	
WILLIAMSON, J. S.	From millivolt to megawatts—control of large gas turbines (A)	Ja	80	
WILLIS, N. C., JR.	Analysis of three-fluid, crossflow heat exchangers (A)	Mr	75	
WILLOUGHBY, VICTOR R.	Obituary	Ja	113	
WILSEA, JASPER	Obituary	Ja	127	
WILSON, D. R.	Evaluation of PR-143—a new candidate for use as a high-temperature hydraulic fluid (A)	Ap		
WILSON, E. B.	Study of means for eliminating corrosiveness of coal to high-temperature surfaces of steam generating units—2 (A)	My	124	
WILSON, H. B., JR.	Axysymmetric contact stresses about a smooth elastic sphere in an infinite solid stressed uniformly at infinity (A)	Ap	72	
WILSON, J. T.	Evaluation of freight-car cushioning devices through simulation of train dynamics (A)	My	73	
WILSON, LLOYD C.	Obituary	Ja	119	
WILSON, N. W.	Analysis of heat transfer for fully developed flow in concentric annuli, an (A)	Mr	76	
WILSON, R. B.	Fulfilling the aerospace engineer's responsibility for product reliability (A)	Mr	77	
WILSON, RONALD S.	Elected president of Canadian Transportation Research Forum	S	121	
WINER, W. O.	Effect of pressure on the non-Newtonian behavior of polymer blended petroleum oils, the (A)	D	67	
WINGERT, WAYNE L.	Some measurements of high-pressure lubricant rheology (A)	Je	74	
WINKELMAN, LOUIS A.	Appointed to newly created post of environmental improvement engineer, Detroit Edison Co., Detroit, Mich.	Ap	157	
WINN, L. W.	Elected ASME fellow	Je	117	
WINROW, ROBERT P.	Design of one-piece jet-engine compressor end seals (A)	S	75	
WINSTON, PAUL R.	Two mechanical engineers—and a computer (A)	Mr	77	
WINTER, P. H.	Obituary	O	113	
WIRE	Slippery boots (C)	F	80	
WITTE, L. C.	Film-boiling heat-transfer properties of liquid helium 2 for a 76.2-mu-dia horizontal wire at depths of immersion up to 70 cm (A)	Mr	74	
WITZKY, J. E.	Heat transfer by free convection from a horizontal wire to carbon dioxide in the critical region (A)	Ja	66	
WISEMAN, JAMES P.	Material behavior in wires of 1100 aluminum subjected to transverse impact (A)	Ag	57	
WISEMAN, JAMES P.	Pressure tests of cylindrical pressure vessels reinforced with steel wire wrapping (A)	O	74	
WISNIEWSKI, H. U.	Transient film boiling of water on a horizontal wire (A)	O	67	
WISCHMEYER, CARL	Receives ASME 55-year certificate	Ap	157	
WITTE, L. C.	Evaluating wear of cylinders and piston rings by quick spectrographic sampling method (A)	Ja	65	
WITT, F. J.	Heavy-section steel technology program, the (A)	My	74	
WITZKY, J. E.	Experimental study of forced-convection heat transfer from a sphere to liquid sodium, an (A)	Ja	65	
WOLFE, EDGAR F.	Heat transfer from spheres into subcooled liquid sodium during forced convection	Mr	74	
WOLFE, H. W.	Measurement of rapid transients (A)	N	75	
WITTBORN, H. W.	Challenge in recruiting and training minorities, the (A)	Ja	69	
WOLFE, J. O.	Role of lubrication in propagation of contact fatigue cracks, the (A)	Ja	74	
WOLFE, W., JR.	Copper-iron-phosphorus alloy for condenser and other heat-exchanger tube applications, a (A)	Mr	77	
WOLFORD, J. C.	Dynamic characteristics of spatial mechanisms (A)	N	69	
WOLOSEWICK, RONALD M.	Appointed senior development engineer at Anocut Engineering Co., Chicago, Ill.	S	121	
WOMEN IN ENGINEERING	Leave it to the girls (or the saga of the female engineering student)	Ja	81	
WONG, R. Y.	Women engineering graduates	F	95	
WONG, R. Y.	Pivoted-pad journal gas bearing performance in exploratory operation of Brayton cycle turbocompressor (A)	S	75	
WOO, L. S.	Kinematic design using computer graphics (A)	N	67	
WOOD, D. J.	Evaluation of quasi-steady approximation for viscous effects in unsteady liquid pipe flow (A)	Ag	53	
WOOD, STANLEY V.	Obituary	Ap	161	
WOODHAM, R. M.	Receives ASME 55-year certificate	Ap	157	
WOODLEY, N. H.	10 developments in aviation safety	Je	33	
WOODWARD, J. A.	Power engineering education: part 5—make him part of the team	F	41	
WOODS, SAMUEL H.	Obituary	N	113	
WOODS, W. A.	Formation of a shock wave in the blade passage of a partial admission turbine, the (A)	Ag	55	
WOODSON, RILEY D.	Elected ASME fellow	Ag	102	
WOODWARD, J. A.	Olympus engine for the Concorde	N	37	
WOODWARD, J. L.	Dynamic behavior of a hydrogenerating set, the (A)	My	69	
WOODWARD, M. L.	British experience with propulsion machinery for air cushion vehicles (A)	My	70	
WORMLEY, JAMES D.	Promoted to president of Oliver Corp., Chicago, Ill., a subsidiary of White Motor Corp.	Ja	111	
WRENCHES	Precision power torque wrenches	Ap	119	
WRIGHT, PAUL	Ultrasonic wrench for leaktight seals	F	52	
WRIGHT, PAUL	Obituary	Ap	161	
WRITING	BR (by Glenn R. Fryling) of "Technical Correspondence: A Handbook and Reference Source for the Technical Professional" by Norman M. Weisman	D	77	
WU, E. M.	BR (by Glenn R. Fryling) of "Writing for Technical and Professional Journals" by John H. Mitchell	D	76	
WU, S. M.	Application of fracture mechanics to anisotropic plates (A)	Ap	134	
WU, S. M.	Temperature responses and experimental errors for multitooth milling cutters (A)	Ja	63	
WUNSCH, H. L.	Air-bearing applications to machine tools and measuring instruments (A)	S	72	
WURSTER, WILLIAM F.	Obituary	My	119	
WYBURN, WILFRED	Obituary	Ap	161	
WYDER, CARL G.	Elected ASME fellow	My	118	
WYLIE, R. D.	Consideration in design of tube-to-tube sheet joints in high-temperature heat-exchange equipment (A)	N	73	
WYRICK, DAVID H.	Influence of fabrication on reliability of high-temperature superheater tubes (A)	N	73	
X	XENON			
Y	High-temperature thermal conductivity of rare gases and gas mixtures (A)	Ja	66	
YAMAGUCHI, M.	Photographic study of the three-dimensional flow in a radial compressor, a (A)	My	69	
YAMAMOTO, T.	On the unstable vibrations of a shaft with unsymmetrical stiffness carrying an unsymmetrical rotor (A)	S	77	
YANG, A. T.	Displacement analysis of spatial five-link mechanisms using (3 x 3) matrices with dual-number elements (A)	N	69	

YANG, WEI HSUIN			
Stress concentration in a rubber sheet under axially symmetric stretching (A)	Ap	132	
YANG, WEN-JEI			
Dynamics of moving gas bubbles in injection cooling (A)	Mr	76	
YANO, T.			
Matching of exhaust turbochargers to two-cycle diesel engines (A)	Jl	67	
YASINSKY, J. B.			
Solution of three-dimensional, composite media heat conduction problems by synthesis methods, the (A)	O	67	
YATES, SAM			
Foresight needed (C)	N	81	
YEAGER, K.			
Addition to Tesar-Vidosic approximate straightline maps for four-bar motion (A)		N	
YELLOTT, JOHN I.			
Development of an indicating and integrating solar radiometer (A)	My	75	
YEN, H. H.			
Transient film boiling of water on a horizontal wire (A)	O	75	
YOUNG, D. F.			
Effect of a time-dependent stenosis on flow through a tube (A)	F	71	
YOUNG, DANA			
Named honorary member	Ja	102	
YOUNG, EDWIN H.			
Elected president of National Society of Professional Engineers	Jl 112; S	121	
YOUNG, FRED M., JR.			
Joins Young Radiator Co., Racine, Wis., as sales manager in Industrial and Oil Field Division	Jl	111	
YOUNG, W. E.			
Errors crept in (C)—errata	F	80	
YU, H. S.			
Experiments on two-component stratified flow in a horizontal duct (A)	N	76	
Torsion of composite elastic bars of arbitrary cross section (A)	Ja	68	
VURENKA, S.			
Using boron-epoxy composites in a structural component (A)	Je	68	
Z			
ZABLOTSKY, N. D.			
Method of theoretical investigation of externally pressurized gas-lubricated bearings (A)	O	72	
ZAGIER, ROBERT L.			
Selected by Tau Beta Pi for graduate fellowship award in 1968-1969	Ag	99	
ZAKALA, ANDREW			
Subject: Russia (C)	Ap	136	
ZAREMBA, W. A.			
New approach to size selection, a	F	23	
ZARETSKY, E. V.			
Contact conformity effects on spinning torque and friction (A)	D	65	
Evaluation of lubricants for high-temperature ball bearing applications (A)	Ja	72	
Study of residual stress induced during rolling, a (A)	D	65	
ZASLAVSKY, Y. S.			
Investigations into the detergent action of additives for motor oils in the presence of an electric field (A)	Ja	72	
ZEDEKAR, S. L.			
Effect of viscous and pressure gradient torques on a free-rotor gyroscope, the (A)	O	72	
ZEIDMAN, G. G.			
Design of a high-speed barge-mounted materials-handling system (A)	Je	72	
ZERKLE, R. D.			
Freezing of hydraulic systems (A)	O	71	
ZIELKE, W.			
Frequency-dependent friction in transient pipe flow (A)	Ap	128	
ZILBOORG, JAMES M.			
Obituary	O	113	
ZINN, R. E.			
Heat value of refuse, the (C) (D) (AC)	O	77	
ZLATIN, N.			
Computerized determination and analysis of cost and production rates for machining operations: part 1—turning (A)	Ja	62	
ZOOLOGY			
Waveguide detector of the night-flying moth	D	55	
ZOSS, LESLIE M.			
Receives Instrument Society of America's Donald P. Eckman award	N	107	
ZOWSKI, THADDEUS			
Elected ASME fellow	Je	117	
Elected vice-president of Harza Engineering Co., Chicago, Ill.	Jl	111	
ZUMWALT, G. W.			
Numerical solution for the interaction of a moving shock wave with a turbulent mixing region (A)	S	77	
ZWERNER, GENE A.			
Appointed sales manager of Link-Belt Detroit Plant, Detroit, Mich.	Mr	109	
ZWICKY, E. E., JR.			
Cyclic strain concentration factors with local plastic flow (A)	Mr	78	
ZYSZKOWSKI, W.			
Transient temperature distribution in one-dimensional heat-conduction problems with nonlinear boundary conditions, the (A)	N	77	



